Chemical Week INDEX

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astronauts N	Aug	2	40	denum deposits in British Columbia R	Aug	30	16	U.S.'s first OG unit to collect CO from basic oxygen converters at Armco's plant at Middletown, O N			
Beta-Naphthol - Prices N Bismuth - Prices N Aug 9-28 N	Nov	12	30	BASF Canada's Laval, Montreal complex N Sept 20-48 R	Dec	3	24	plant at Middletown, O N Carboranes — Icosahedral carboranes C	Aug	19	97
Bleaching - Du Pont new peroxygen				Cardinal Protein will build fish protein	July	19	47	Carpets - Shampoos: additives cause	1401	.,	"
compound, Tyox, an hydrogen peroxide analyzer promise solutions to textile-				plant in Nova Scotia N Chemcell will invest in oil and gas	Dec	3	10	carpet shampoos to dry to a brittle residue that can be swept off, leaves			
bleaching problems	July	5	39	business N	Oct	29	49	no dirty-attracting film	July Dec	12	26 43
cholesterol levels in blood N	Nov	19	90	Contract prices of sour gas sulfur dropped N	Nov	19	76		Dec	,	43
Boilers - Oil removal boil-out C	Aug	23	79	Ou Pont's Dacron polyester fiber plant expected to start up in '71 at				Catalyst that would cause DDT to destroy			
Government orders Gulf Oil to provide				Morrisburg, Ont	July	19	17	itself is the goal of a study contract . N Drew Chemical's Boonton, N.J. plant:	July	19	31
the country with free natural gas for domestic consumption for 10 years N		12	24	phosphorus plant in Newfoundland	to be	10		chemical regeneration of the nickel catalysts used to hydrogenate fats and			
Gulf Oil's subsidiary, Bolivian Gulf	Sept	-	24	July 12-37 N Four leading Canadian companies	July	19	51	oils	Dec	10	63
Oil nationalized	Oct	29	49	boosted first-half '69 sales and profits . Freight rates are shaping up as a threat	Aug	16	38	Esso Research received government contract to answer the question: Why			
Natural gas pipeline from Bolivia to	Dec	3	23	to potash industry N Gulf Oil will convert two refineries to	Dec	3	36	has the USSR not cashed in on its out- standing theoretical studies in catalysis?			
Argentina — World Bank loan will cover half the cost of construction N	India	12	20	asphalt production at Calgary and		-		Conclusion	Sept	20	117
Argentina will assume guarantees to permit resumption of work on pipeline.	July		25	Moose N Hudson's Bay Oil & Gas agreement with Great Plain Development of	Aug	23	14	reactor tubes N	Sept	20	124
Quinine venture, Farmaceutica Boliviana,	Dec	24	39	with Great Plain Development of Canada for 50% interest in 3.7				Formaldehyde processes: they all promise longer catalyst life	Nov	19	79
U.S. investments getting close government	July	5	32	million acres of oil leases in Canada's Arctic Islands	July	19	18	- letter	Dec	17	8
scrutiny N Book Reviews - Ettinger, M.B "Stand-	Oct	18	65	Hungary's Chemolimpex investing \$54		2	-	for controlled oxygen atmosphere for food preservation	July	26	28
ard Methods for the Mediocre Science				million in a Canadian potash project . N Imperial Oil's polypropylene plant at	Aug	-	20	Non-noble metal catalyst for nitric acid N	Sept Aug	13	68
Manager"	Dec	24	77	Sarnia complex	July	5	34	Tin catalysts for making urethanes		16	
boric acid process N	Nov	19	89	Ontario Water Resources Commission test program	Oct		48	patent dispute N	Nov	12	44
Borneo - World's largest natural gas liquefaction plant in Brunei will use				LNG plant for BC Hydro R	Dec	3	24	Coustic Sodo Chlorine-caustic price-fixing suit: FMC			
U.S. technology N Boron Trioxide – Ultrapure chemicals C	Oct	4	47 97	LPG feedstock shortage may mean more gas liquids imports from Canada				cleared of collusion	Sept Dec	17	16 56
	Nov	19	7/	(charts)	Sept	20	37	Dow plans chlorine-caustic solvents		-	
Bottles Coca-Cola evaluating plastic bottles				Nova Scotia's Glace Bay heavy-water	Aug	2	14	complex at Stade, W. Germany N Dow's plant in Australia possible N	Oct Aug	30	26
made from a material named LOPAC	Nov		19	plant: U.S. team report N	July	12	43	GAF chlorine-caustic expansion at Linden, N.J	Dec	10	22
PVC bottle prices N Returnable plastic milk bottles — "best buy" for dairymen?			20	Nova Scotia oil?		18	33	Hooker and Cros partners for proposed vinyl chloride monomer and chlorine-		-	
- letter	Aug	6	4	have been enacted N Potash mine: Sylvite of Canada project R	July Sept	13	29	caustic soda project at Puertollano,		•	
Broxil				Potash penalty and higher prices is the		1		Spain	Aug	9	24
BASF investment boosts N Military junta that took over for ailing	Dec	10	28	ruling N Potash prorationing system still possible N Aug 16-88, N Oct 29-105 N Potash prorationing will it cut the mounting pile? (tables).	Dec	3	35	operation following war between Honduras and El Salvador N	Aug	23	28
President da Costa e Silva promises to continue the government's economic				N Aug 16-88, N Oct 29-105N	Nov	12	38	Prices N July 5-31 N Celestite — Kaiser acquires a big strontium	Dec	10	53
policies N	Sep	t 13	24	mounting pile? (tables)	Nov	19	36	sulfate ore deposit on N. Scotia's Cape			
Brighteners, Optical — Cyanamid specialty chemicals plant at Rotterdam, Holland,				Potash prorationing plan will force eight potash producers to limit production N	Dec	24	57	Breton: will put up a preconcentration plant at the mine site and a processing			
complex	Oct	11	28	Profits up for chemical companies	Nov	12	21	plant at Point Edward; new uses are catching on	Nov	5	36
Brisco, Milo — Jersey Standard's new chiefs plan to keep growing in chemicals	Sep	t 6	53	Saskatchewan's potash production and price controls unveiled N	Nov	26	119		1404	,	,,
Britain's Gas Council — Gas from Britain's onshore field will be tied into the				Shell's gas processing plant N July 19-17N	Sept	27	24	Du Pont discontinues final processing			
national grid N	Aug	2	40	Sour gas sulfur producers look for 'two to three years of severely depressed				of smokeless powder at Carneys Point, N.J., cellulose products plant in the			
Bromine				prices" N	Sept	27	43	wake of the June 4 blast N Protein from cellulose waste products	July	19	18
Great Lakes Chemical's rise has been buoyed by bromine (charts)	No	v 19	53	Submarine tanker may haul oil and sulfur out of Canadian Arctic	Oct	29	96 12	Synthetic fibers outlook: Slower growth.	1404		47
Great Lakes, Germany's Klak, swap flame-retardant technology	Dec		24	Sulfur: plenty now, more on the way Sulfuric acid users are feeling the impact	Oct	4		slimmer profits; trend to greater involve- ment in the textile industry (tables)	Nov	26	123
Brunei – World's largest natural gas		/		of Inco strike	Aug	16	87	Center for Biology of Natural Systems —			
liquefaction plant on Borneo will use U.S. technology	Oct	4	47	of ore	Sept	20	112	Commoner, Barry, at ACS meeting: "Gangrene has already set in on certain aspects of our environment"	Sept	20	118
				(N Newsletter. R Roundup. C Countd	iown)				. Jept	20	

Centrifuges - Japanese are launching a				Chlorohydrin - Sterilant for rats N	Sept	20	123	Micro "magnetic bubbles" may be the answer in building low-cost, compact			
project to develop a gas centrifuge for enrichment of propane N	Aug	23	73	Christmas Trees - PVC trees - Sales bells ring	Dec	24	67	computers and telephone switching	Aug	16	102
Coramics				Chromatography				Photochromic glass may be the basis			
Coatings able to stand up to high temper- atures and destructive atmosphere N	Oct	18	72	Gas chromatograph system	Oct	29	129	for computer components N Program to evaluate new chemical		30	39
Foam - Dow obtains rights to Selas Corp.'s technology	Dec	10	68	chromatograph) technique N	Oct	4	47	processes available from USBM N Railroad leasing companies installing	Dec	3	46
Ultralow-expansion glass for commercial glazes	Oct	4	47	Chrome				USMB computer program to simplify part	July	19	42
Cosium Oxido				UC operations in Rhodesia not going so well	July	12	37	of the complex job of economically evaluating new chemical processes N	Dec	10	27
Generating electricity in MHD or thermi- onic-converter systems N	Oct	29	120	Asks approval to import ore from Rhodesia to relieve U.S. dependence	July	**	,,	Concrete - "Chemical jackhammer" will demolish concrete quietly and quickly N		13	
Russia imports from Tantalum Mining Corp. of Canada N	Oct	29		on Russian supplies N Imports from Rhodesia apparently to be	Oct	29	106	Congo - UC columbium mining project		12	67 37
Char - Clarke treatment process: room to				approved by the House N	Nov	19	48	Conservation — Grass growing attempted on North Slope tundra N	Aug	23	74
spare, char to sell (flowsheet) Charpie, Robert A. new president and	Sept	13	63	Cladding — Du Pont's Explosive Dept. "conversion-rolled" titanium-clad steel				Construction			
director of Cabot Corp It was big news in Boston when a Cabot talked to				plate top new contender for use in the fabrication of process vessels	Dec	17	25	Brown & Root's "Mr. Clyde", erection pole and gallows head assembly, has			
a Charpie		19	69	Clamps — Aluminum safety clamps C	Nov		100	the greatest lifting capacity now avail-	0-1		22
Chelating agents – Prices N	Dec	24	58	Cleaners				"Chemical jackhammer" will demolish	Oct	11	73
"Biggest Chemshow ever" reflects				Bathroom: automatic-dispensing toilet- bowl cleaners (chart)	Oct	29	88	concrete quietly and quickly N CPI construction costs are sure to climb	Sept	13	67
healthy state of chemical equipment business	Dec	10	57	Heavy-duty degreaser	July	5	41	in Chicago area due to new contracts			
Exposition (32nd) of the chemical				have been solved, in laboratory at least N	July	12	44	with building contractors N CPI construction costs at Cincinnati:		10	14
industries	Nov	26	37	Oil removal boil-out C	Aug	23	79	Can labor costs be curbed? (chart) Contracts decline	Aug Nov	16	99
Chemical Industry Council of New York State — Chemicals grow in Empire State	Dec	17	24	Rugs: additives cause carpet shampoos to dry to a brittle residue that can be				Contradictory policies of government agencies in the housing field? - S.			
Chemical Specialties Manufacturers Assn.				swept off leaves no dirt-attracting film	July	12	26	S. Moser at American Forestry Assn N	Oct	4	9
Meeting (56th annual) acents new products, consumer reactions	Dec	17	82	Cool Cheap power secret: huge plants, long				Costs up 7.5%	-	10	24
				lines, Western coal (table)	Oct	11	26	value rebounded in Oct	Oct	11	34
Chemical Worfere Chemical-biological warfare agents: impact				Gulf Resources & Chemical will enter into the coal business		19	34	Housing: Hercules submits contract proposal based on design plans in			
of research on America's foreign and de- fense policies will come under				Missouri: St. Louis' ban on high-suffur	Nov			Operation Breakthrough N Housing: nearly 600 firms have bid for	Sept	27	10
scrutiny	July	5	23	coal goes into effect	Oct	11	28	"Operation Breakthrough" contracts . N Housing competition: 37 firms selected	Oct	4	19
restrictions N July 12-14,	Mari	10	40	Acrylic coating protects plastics C	Aug	2	35	to compete for 20 contracts under "Operation Breakthrough"	Dec	24	22
N Aug 23-27 N Defoliation chemicals see Defoliation	Nov	19	48	Ceramic coating able to stand up to high temperatures and destructive				Housing construction will continue to slump N	Nov	5	23
Chemicals Government will dispose of all existing				atmosphere N Chemical specialties and adhesives	Oct	18	72	Jonathan Housing Corp. formed for ex-			
stocks of bacteriological weapons N UN's report advocates a complete ban on	Dec	3	46	plant near Chicago planned R	Nov Sept	19	103	perimental home-building program N Mobile home production: Not so 'mobile',	July	5	10
chemical and biological weapons N	July	12	14	Conductive coating additive	July	20 26	57	but going places (chart & table) Mobile homes: growing market for CPI -	Oct	18	29
CHEMICAL WEEK Computer got us, and we like it - Behind				application for electrogasdynamics system dubbed Electradyne N	Sept	6	47	Business Benchmarks	July	19	74
McPherson, Paul F. new publisher	Oct Nov	29	5	Emulsion, solution polymers C	July	26	57	the best year, but not the worst (table). Outlook in the U.S. for '70	Oct	29	14 25
CHEMICAL WEEK REPORTS		-		Hot-melts score sizzling success -	Sept	20	104	Plant sites '69 report. J.M. Winton (charts & tables)	Oct	29	59
Ethyl Corp.: Putting new push into Ethyl Anthony J. Piombino (charts & tables).	Aug	23	47	Nesatron coating for glass N	Aug Sept	13	68	Plastic wrapper for roads allows builders to substitute native clay soils for			
Europe's chemical giants set for home, overseas investment drive (tables &	Aug	27	41	Reflective glass coatings	Aug	2	35	granular base N Ships carrying bulk commodities would be	July	12	25
charts) Grace zeroes in on the consumer Meyer	Dec	10	33	glazes. N Vibrathane 6005 printing roller coating.	Oct	23 19	47 68	eligible for government construction and operating subsidies under new maritime			
Lurie (tables & charts)	Sept	13	30	Zinc phosphate coating C Cobalt – Prices N	July	19	32 38	proposal	Nov	5	23
How to court the consumer Herbert Terry (table)	Aug	16	59	Coke		46	20	tions Substitution of synthetic materials for	July	19	48
Plant sites 1969 J.M. Winton (charts & tables).	Oct	29	59	FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	lumber in home-building should be en-			
A review of the chemical industry's top business stories of '69	Dec	24	40	German costs are mushrooming N	Oct	17	34	couraged by the federal government, says R. Mayo	Nov	26	35
The world of synthetic detergents Sal J. Selvis (charts, tables, flowsheets)				Color concentrate prices N Columbia University – Hudson Laboratory's	July	5	32	ever placed on pipeline builders	Nov	12	20
Part 1 Sept 20-67, Part 2	Oct	18	79	scientists form Ocean Atmospheric Science Inc	Aug	23	22	Tax-free status of municipal bonds being eyed again	July	19	18
Chile				Columbium - UC mining project in Congo	July	12			July	5	16
Anaconda agrees to a gradual takeover of two of its three copper mines	July	5	15	Commercial Chemical Development Assn. — Venture management: Chemical companies				Consumer Products How to court the consumer – report			
BASF acquires Industrias Cola; increases investment in Polimeros	,	-		try new techniques to manage new ventures	Dec	17	47	Hebert Terry (table) Nixon Administration is ignoring the con-	Aug	16	59
Nacionales R	Dec	24	39	Commodities				sumer, says the Democratic Study Group N	Aug	23	27
Chine Fertilizer contract with Japan N	July	19	45	Kaiser organizes Kaiser Trading Co. and will enter the international commodity				Consumer Spending — Consumers' blues — Business Benchmarks	July	24	44
Fertilizer from Japan	Nov	19	117	trading field "on a major scale" N Wholesale distribution industry is up in	Aug	9	27	Containers-Glass container prices and	July	20	94
Nitrogen fertilizer shipments from Italy. N Polystyrene from Japan N	Aug	2	20	arms over a plan under which the federal government would buy commod-				warehouse storage charges N	NOV	,	30
Chlorine				off distributors	Aug	23	27	Controctors Drive to break up the military-industrial			
Bayer's unit at Dormagen to produce chlorine	Oct	11	36	Compressors - Diaphragm compressors C	Dec	17		complex at the end of the war in Vietnam started by Senate liberals N	Dec	10	27
Dow plans chlorine-caustic solvents complex at Stade, W. Germany N	Oct	29	26	Computers				U.K. needs fewer, but stronger, equipment makers and engineering contractors N	Nov	26	133
Dow's Argentinian complex see Argentine				Computer programs may not be patentable per se, but the operation of computers				Contracts		-	
FMC cleared of collusion in chlorine- caustic price-fixing suit	Sept	6	16	that are controlled by the programs may be - Prater-Wei caseN	Aug	23	73	Construction contracts decline N DOD's contract awards for munitions and	Nov	5	13
French plant at Lavera will use Hooker diaphragm cells N	Nov	26	133	Programs may be patentable under a new stand taken by the U.S. Patent Office N	Oct	18	40	weapons drops	Sept	6	23
GAF chlorine-caustic expansion at				Computer station	Sept	20		value rebounded in Oct R	Dec	10	22
Linden, N.J	Dec	10	22	industry - letter. Firestone's Computer/Optimizer	Aug	16	5	Housing: nearly 600 firms have bid for "Operation Breakthrough" contracts . N	Oct	4	19
vinyl chloride monomer and chlorine- caustic soda project at Puertollano,				computerizes recipe formulation N	Oct	18	71	Controllers			
Spain N Pennwalt's Nicaraguan plant is back in	Aug	9	24	ISA meeting seeks new ways to simplify control panels as complex processes				Analyzer-controllers	Sept	20	101
operation following war between Honduras and El Salvador N	Aug	23	28	add more instruments to central control rooms	Nov	5	33	production rate ISA meeting seeks new ways to simplify	Dec	3	51
Prices N July 5-31, N Sept 13-53 N	Sept	20	109	IEEE offers IPL-'69, tape-recorded work- shop on computer process control				control panels as complex processes add more instruments to central control			
Wyandotte's Geismar, La., chlorine production halted by a flash explosion N	July	26	38	Maintenance of instruments planned by	Dec	3	51	rooms Piezo-electric fluid metering valve: "Moon	Nov	5	33
Chloroformates — Pennwalt's Geneseo, N.Y. percarbonate initiators and specialty				computer	Nov	19	108	valve" seeks down-to-earth CPI process control jobs	Aug	2	36
chloroformates plant R	Sept	20	43	(N Newsletter P Poundum C County	da			Cantrol Jours.	Aug	2	36

Process-control electrodes keep eye on ions	July	26	49	Cyclomotes Amsterdam court orders two sugar com-				Detergents Ban on detergent phosphates opposed by			
Solid-state control	July	19	32 129	panies to stop advertising "unfounded, destructive criticism" of cyclamates N	Aug	30	39	government and industry	Dec	24	23
Controls - The dynamic equipment/				Ban sparks race for substitutes among				Bathroom: automatic-dispensing toilet-bowl cleaners (charts)	Oct	29	88
engineering industry — letter	Aug	16	5	foodmakers	Oct Oct	29 29 12	30	Darrill Industries acquires Armour Dial's synthetic detergent manufacturing and			
conveyor system will be tied into TVA				Last week's developments	Nov	12	26 22	distribution operations in Chicago N	Dec	3	9
project N	Dec	10	68	bles containing cyclamates delayed to				Durable-press fabric detergent C Enzyme detergents may be the next target	Nov	19	104
Coolers - Air-cooler sales begin upswing as freshwater reserves shrink	July	5	22	bles containing cyclamates delayed to coordinate with Canadian government plans N	Nov	26	22	of federal consumer safety agencies. N	Dec	10	54
		-		H-E-W's Finch accuses FDA of making a	NOV	20	22	"Low-sudsing laundry detergent" from Sweden	Oct	29	106
Copolymers Anim/8 fiber (called XE while in develop-				of its research into the possible danger				Mafia link with chemical industry turns			200
ment) is an acrylic copolymer Thermoplastic combining fluorocarbon and	Oct	29	116	of cyclamates in artificial sweeteners	Oct	18	31	up: mobster-run sales agency pressured A&P to sell detergent	July	5	13
ion exchange properties called XR N	Sept	20	124	Nutrition conference clashes over 'GRAS' charges	Dec	10	19	No one wants to talk detergents — Behind the News	_	20	5
Copper				PMA hopeful it can get FDA to drop				Nuclear radiation applying for job in	Sept		
Asarco's copper leaching plant at San				cyclamate ban	Dec	17	24	enzyme processingN Phosphate-containing heavy-duty	Aug	23	74
Xavier, Ariz	Aug	16	42	Viewpoint	Nov	12	31	detergents from Sweden N Proteolytic detergent enzyme prices N	Oct	29	106
of two of its three mines by Chilean				Cyclic compounds	July Aug	23	79	Proteolytic detergent enzyme prices N Sales boom (table)	Aug Oct	11	28 27
Anaconda will build plant to prove out	July	5	15	Cyclohexane - Output for first six months				U.S. Industries entering the enzyme de-	oci	11	21
direct-reduction copper processes at				of '69	Aug	30 23	30 79	tergents field	Nov	26	22
Tucson, Ariz	Dec	17	69 87	Cyclohexylamine - Ban on sweetener				phosphates, how much? N	Oct	29	106
Increased supplies for commerical uses				sours flavor outlook too (table) Czechoslovakia – Five Eastern European	Nov	5	16	Wisconsin bill would ban "sale or use of detergents containing phosphorus" N	Sept	6	33
Newmont Mining expansion program	Nov	26	120	nations have combined to strengthen their				The world of synthetic detergents —	Sept	•	"
includes construction of the first				chemical industries N	Aug	23	28	report Sal J. Silvis (charts, tables, flowsheets) Part 1 Sept 20:67,			
copper smelter to be built in the U.S. since the mid-'50s	Oct	4	15					Part 2 – letters Oct 18-8	Oct	18	79
Prices N Aug 9-28, N	Sept	13	53	D				- letters Oct 18-8	Dec	10	5
Corfam — Poromerics: many starters, few finishers	July	26	43					Deuterium			
Corn - Duryea: first commerical product	July	.0	4,	Dacron - Du Pont of Canada's polyester fiber plant expected to start up in				Canada — Nova Scotia's Glace Bay heavy-water plant: U.S. team report N	July	12	43
based on high-lysine corn being test	Aug	2	20	'71 at Morrisburg, Ont N	July	19	17	Indian plant will use an ammonia-hydrogen	July	14	47
marketed in Cali, Colombia N Cornell University Aeronautical Laboratory –	Aug	2	39	Daly, LeGrand ("Lee") - Signal's vice-				exchange process to separate deuterium from heavy water N	Oct	11	56
Successful all-chemical laser reported N	Nov	5	53	president and general manager: Charting a new course in plastics	Oct	18	109	Diacetone Acrylamide - Lubrizol will build	001	11	30
Corrosion				DDD - Applications will be restricted to	-			DAA plant at Bayport, Tex R	Sept	13	18
Dow offers package guaranteed to control				uses 'essential' to the preservation of human health or welfare, says H-E-W's				Diammonium phosphate – Prices N p-Dichlorobenzene – Prices N	Sept	27	44 31
corrosion in ammonia and hydrogen puri- fication units N	Aug	9	33	Finch	Nov	19	42	1,1,-Dichloro-2-2-bis(p-chlorophenyl) ethane — DDD applications will be	July	,	34
Inhibitor	July	19	103	DDT				ethane - DDD applications will be restricted to uses "essential" to the			
Titanium corrosion in sea-water desalting	Sept			California has joined Arizona and	. Mary		20	preservation of human health or welfare		20	
plants will be studied N	Aug	23	73	Michigan in limiting the use of DDT California state assembly's agriculture	Nov	5	20	says H-E-W's Finch	Nov	19	4?
Cosmetics				committee rejects bill to coutlaw DDT N Case for DDT and the need for posponing	Aug	9	11	Diisocyanate			
Japanese-German joint venture R Men's hair-spray formulation C	Dec Sept	24	104	a general ban on it made by Ray Smith N	July	12	44	Belgium plant planned by Shell and Bayer N	Dec	3	20
Sun tan lotions: para-aminobenzoic acid	Sept		401	letter	Aug	9	5	Rubicon's TDI-80/20 prices N	Dec	10	54
employed in an ethyl alcohol solution: new way to use an old compound to				itself is the goal of a study contract . N	July	19	31	Dimethyl Silicone — Fluids, emulsions and antifoam formulation prices			
protect skin against sun N	July	5	43	Chlorinated insecticides fighting to hold a market (table)	July	12	31	N Nov 12-38 N	Dec	3	36
Costs				- letter	Aug	9	5	Dimethyl Terephthalate			
Cartex uses numerical control to increase production rate	Dec	3	51	DDD and DDT applications will be restricted to uses "essential" to the				Hercules increasing DMT capacity of Hanover plant at Wilmington, N.C	July	12	14
Cheap power secret: huge plants, long		,	31	preservation of human health or welfare, says H-E-W's Finch	Nov	10	42	Hercules-Teijin joint venture in Japan . R Petroquimica Sudamericana plans plant	Aug	23	35
lines, Western coal (table)	Oct	4	26 40	DDT makers must look ahead - Viewpoint	July	19	42	Petroquimica Sudamericana plans plant in Chubut, Argentina	Sept	6	24
Chemical plant problems get low priority				 letters Aug 9-5 Eight makers slapped with whopping \$30- 	Sept	13	4	Dioctyl Tin Oxide - Capacity boost R	Nov	19	120
in U.S. pollution studies (chart)	Oct	29	111	billion suit	Oct	29	31	Diphenylmethane diisocyanate - Shell and	D	-	20
Chicago area due to new contracts with	Dan	30		Italy curtails use N Partial ban now in effect; complete	Nov	26	134	Bayer plan plant in Belgium N Dispersant — BP 1100, to be used on oil	Dec	3	20
building contractors	Dec Oct	10 18	34	removal is set for '71	Dec	3	15	slicks at sea N	Oct	29	119
Desalination is costly, UN study shows N Investment cost for urea plant (chart)	Sept	19	47	Prices	July	26	38	Distillation - Monsanto's J.R. Fair discusses distillation cost compari-			
Liquid fertilizer marketing cost study N	Oct	4	62 38	have filled applications to use some of				sons: valve trays vs. packings at			
Monsanto's J.R. Fair discusses distilla- tion cost comparisons: valve trays vs.				them in the vicinity of the nations's capital	Aug	9	21	AIChE meeting (table)	Nov	26	130
packings at AIChE meeting (table) Plant sites '69 report. J.M. Winton	Nov	26	130	USDA's new restrictions on use of DDT are included in recommendations being				Distribution			
(charts & tables)	Oct	29	59	circulated privately within the Agricul-		_		Trip-leased railroad cars used for storage run up chemical makers' costs	July	19	41
Sulfur from stack gas: Which process is				ture Dept	Aug	2	19	Wholesale distribution industry is up in	,		
best?	July	5	46	review of its effect	July	19	24	arms over a plan under which the federal government would buy commodities for			
Papermakers try new technology in battle to trim operating costs	Sent	27	52	Use around the world to be reduced N	Dec	24	72	states and localities — cutting off dis- tributors N	Aug	23	27
Coumarin - Prices N			109	Defense Department American Electric taking over as the					Aug	23	41
				DOD's major supplier of napalm and				Output for first six months of '69 N	Aug	30	30
Cresols				napalm ordnance	Nov	26	30	Singapore may get petrochemical plant. N	Sept	27	24
Sumitomo's plant to make synthetic meta	Dec	10	40	drops N	Sept	6	23	Drilling			
and para cresols	Dec	10	68 53	Poison gas disposal will be according to NAS recommendations		12	25	Orilling ACLU wants to stop oil companies from			
				Defoaming agents C Sept 20-103 C			104	drilling new wells in California's Santa Barbara Channel	Nov	19	34
Cryogenics				/	0.0			ILS Supreme Court unholds right to			-
Con Gas starts up a large cryogenic plant to separate natural gas liquids				Defoliation Chemicals American Electric taking over as DOD's				drill for oil	Dec	3	46
at Hastings, W.Va Industrial gases' outlook: new processing,	Nov	12	50	major supplier of napalm and napalm	Mari	21	20	oil, gas and sulfur drilling N	Sept	6	10
pollution-control uses bolster outlook				ordnance	Nov	26 26	30 30	Pan American Petroleum stepping up off- shore Louisiana activity R	July	12	21
(chart)	Sept	27	39	De-icers					,		
natural gas has replaced oil absorption in West Virginia				Aircraft de-icing fluid C	Nov			Drugs			
in West Virginia	Nov Sept	20	101	Cargill's Carguard prices N	July	26	38	Animal drugs see Animal Health Antibiotics see Antibiotics			
Vaporizer	Sept		101	Denmark — Novo Industri opens enzyme fermentation plant at Kalundborg N	Nov	19	114	Aspirin prices N	Dec	17	55
Crystals				Dental Products - Plactic point to provent				Atlas Chemical Industries plant to make			
Micro "magnetic bubbles" may be the				decay on tooth's grinding surface will be tested by NIDR	Oct	29	40	selected pharmaceuticals, including liquid Mylanta and Sorbitrate, at Newark,			
answer in building low-cost, compact computers and telephone switching				Deodorants Personal hygiene sprays	-			Colestinal – new drug to lower	Aug	30	16
systems N Ti's Sherman, Tex., plant will make	Aug	16	102	have gained a \$10-12-million market	Dec	17	81	cholesterol le veis in blood N	Nov	19	90
single-crystal semiconductor material K		16	42	Deodorants, Industrial — Public wrath over plant odors spurs use of "neutralizing"				Contraceptives: FDA calls for closer watch on the side effects of "the pill".	Sept	13	16
Cumene - Phenol-from-cumene - Coproduct acetone: asset or Achilles heel in top				aromas (tables)	. Aug	16	94	Contraceptives: Los Angeles County jury	3-pr	.,	-0
phenol process? (table)	Sept	20	133	Desalting see Water Treatment				dismisses damage suit against G.D. Searle's Enovid N	Oct	11	21
				(N Newsletter P Roundum C Count	ldan-1						

Contraceptives: Revised labeling regula- tions for oral contraceptives expected N	New	12	27	Electrodialysis - Japanese groups team up				Epaxies see Resins			
Diuretic drugs: FDA moves to take eight combination diuretic drugs off the	1404	**	.,	to push electrodialysis as a way of getting fresh water from salty well water	Nov	5	36	Equipment "Chemical jackhammer" will demolish			
market N Du Pont now in drugs; will acquire Endo	Sept	20	47	Electroforming - Prince of Wales crowned with aid of 150-year-old chemical			-	Chemshow reflects healthy state of	Sept	13	67
Laboratories	Oct	18	33	process	Oct	11	65	chemical equipment business	Dec	10	57
Ethical drug products sales will total about \$4 million in '69	Oct	29	35	Electrolytes — Prince of Wales crowned with aid of 150-year-old chemical process	Oct	11	65	The dynamic equipment/engineering industry – letters Aug 16-5. Selas Corp. develops a high-velocity, supersonic burner capable of vaporizing a piece of quarter-inch steel plate from	Sept	20	16
interferon production in humans presented by M. Hilleman of Merck Institute N FDA issues new regulations describing	Dec	24	72	Electronics	Cant	20	104	a piece of quarter-inch steel plate from a distance of 12 in.	Sept	27	49
FDA issues new regulations describing scientific criteria for determining the acceptability of medical evidence of				Heat-sink grease C Micro "magnetic bubbles" may be the answer in building low-cost, compact	Sept	20	104	Esters			
a drug's effectiveness	Sept	27	23	computer and telephone switching systems	Aug	16	102	Armour's J. Gardner: Fatty acids, esters production will reach 181 million lbs. next year	Oct		14
skin treatment drug to Poles and Russians N	Nov	19	113	Emulsifiers - 2-sulfoethyl methacrylate				Ester alcohol	Sept		100
Justice sues Ciba, CPC International over drug patents, licensing deals Lithium carbonate will be approved for	July	19	23	(SEM), new monomer introduced by Dow N	July	12	44	Phosphate ester plasticizer prices	Nov Sept	12 13 19	38 67 97
marketing by FDA	Aug	23	27	Emplaiona Dimethyl silicone fluids, emulsions and antifoam formulation prices.				Ethane - LPG feedstock shortage is	Nov		
Parke, Davis capital expansion program through '74 planned N	Nov	5	13		Nov Sept	12	38 104	coming (charts)	Sept	20	37
through '74 planned N PMA: Drugmakers want FDA's regulatory powers streamlined	Oct	4	16	Wax emulsions prices N	Dec	20 17	56	Belgium plant planned R Oct 29-56 R	Dec	3	23
PMA hails FDA's recall of nearly 40	Nov	15	27	Energy Research & Education Foundation — Houston oil men organize "to dissemi-				Japan Ethanol will make synthetic alcohol from ethylene	Dec	3	24
million oxytetracycline capsules N PMA hopeful it can get FDA to drop	Dec	17	31	nate the facts" about the oil, gas and petrochemical industries	Dec	24	25	capacity expansion N	Aug	9	12
Cyclamate ban	Dec	17	24	Engineering				Ethanolamine - BASF's new process for making ethylenediamine N	Aug	16	102
Commission N Quinine cartel will pay \$500,000 in	July	5	32	AIChEhears of new techniques to cut costs: valve trays for distillation				Ethers			
fines for breach of EEC antitrust regulations. N	Aug	2	28	columns; nuclear reactors to make ozone	Nov	26	129	Allyl glycidy ether C Dow planning propylene glycol and	Dec	17	79
Quinine venture, Farmaceutica Boliviana, being readied in Bolivia N	July	5	32	AEC's Blanco describes process for mixing industrial and municipal waste				polypropylene glycol ether plants in Australia N	Nov	19	114
Sinequan doxepin hydrochloride new drug	July	,	36	residues into asphalt or plastic at	Sept	6	43	Ethers look good in early tests for insect control	Aug	9	34
that is said to combat both anxiety and depression N	Nov	26	134	AICE meeting Brown & Root's "Mr. Clyde", erection pole and gallows head assembly, has				Ethyl ether prices N Ethylene glycol ethers C	Oct	18 29	57 129
Squibb's new plant introduces improved drug processing methods	Nov	19	107	the greatest lifting capacity now avail- able in the construction industry	Oct	11	73	Ethylbenzene - ROW's unit at Wesseling			
Swedish government discloses that the nation's pharmacies will be nationalized				CPI construction costs at Cincinnati: Can labor costs be curbed? (chart)	Aug	16	99	onstream R	Oct	11	36
on Jan. 1, '71	Oct	18	66	Coal - not nuclear fuels - proposed as 3-		10	34	Argentina: Dow's planned petrochemical			
makes it big in urethanes (table) Vaccine	Dec	3	29	mill power source (table)	Oct	•	26	complex at Bahia Blanca protested by producers	July	5	36
German measles vaccine will be distributed by Philips-Roxane N	Dec	17	31	to separate natural gas liquids at Hastings, W.Va	Nov	12	50	Chemico is prime contractor. N	Aug Sept	13	25
Rubella – National effort to head off	Nov	12	44	industry – letters Aug 16-5	Sept	20	16	Dow confirms proposal to build com- plex under terms of the country's new			
a rubella outbreak expected in '71 has run into trouble N	Oct	4	19	Formaldehyde processes: they all promise longer catalyst life	Nov	19	79	"petrochemical promotions" law (table)	Sept	13	29
Virus-inactivating experimental drug tested N	Nov	5	35	(chart)	July	19	59	Big new plants will be too late to solve	Dec	10	28
Duncan, William - ICI America's new chairman: In new U.S. job, Scotsman	****	,	,,	Managing new engineers — Six prophecies for the '70s	Oct	29	133	present shortage Calvo Sotelo petrochemical expansion	Dec	3	12
seeks new worlds to win	Dec	3	54	Melamine plants and processes — U.S. makers adopt Dutch process to foil	-	-		in Puertollano N Dow output upped as company bids to	Sept	20	48
Dust collectors	Dec	17	79	import threat (table) National Engineering Information Conference	July	12	49	become one of Europe's biggest	Ont	10	40
Allied-Chemical: waste treatment is key				 no evidence of critical inefficiency in the nation's scientific and technical 				ethylene producers Dow to build naphtha cracker at Terneuzen, Netherlands complex N Oct 29-26 R	Oct	18	99
to modernizing 90-year-old dye plant BASF complex in Beaufort County, S.C	Sept	27	29	Communications	July	5	45	IQA's ethylene expansion R	Oct Oct	11	36
Bathroom: automatic-dispensing toilet- bowl cleaners (charts)	Oct	29	88	sumption: (1) new bright metal-plating processes that can halve nickel con-				Japan's Hasegawa sees a cost-price	Oct	29	57
EEC anti-trust team fines nine European chemical firms for alleged price fixing				sumption in decorative nickel-plating; (2) chemical regeneration of the nickel				squeeze ahead	Sept		34
of aniline dyes	Aug	2	20	catalysts used to hydrogenate fats and oil.	Dec	10	42	know-how in Russia N Neste Oy unit near Helsinki R	Oct	29	57
it-to-us" response from four companies outside Common Market N	Aug	16	48	Oxygen debuts in the pulp mill: first-stage	Dec	10	63	Petrochim's two naptha crackers onstream N	July	5	35
Geigy and Sandoz seeking cancellation	Oct	18	65	bleaching of kraft pulp with high-pressure oxygen and steam may replace three con-				Rheinische Olefinwerke launching expansion program R	Oct	29	57
of fines N ICI appeals fine R Imports up	Nov Sept	5	21	ventional steps using chlorine and hypo- chlorites (flowsheet)	Oct	18	103	Russia: bids for ethylene plant from Mitsui and Toyo Menka Kaisha would mean more U.S. technology for the			
Paper product dyes C	July	56 50	40 57	Pacific's CPI prospects: proposed power/ chemicals complex could spur trade in				USSR N	Aug	30	39
				Far East (table)	Sept	6	41	Sanyo Petrochemical's second plant awaits Japan's approval R	Nov	19	44
				asset or Achilles heel in top phenol process? (table)	Sept	20	133	Shell Chemical boosts capacity N Soc. Chimique des Charbonnages	Dec	3	20
Education Chemical companies' retirees launch				Engines				expands capacity at Lorraine, France. R South African plant at Sasolburg	Dec	3	24
new careers in teaching	Aug	30	43	Cesium oxide engines for generating elec- tricity in MHD or thermionic-converter				onstream	July	5	34
Workshop on computer process control languages offered on tape by IEEE	Dec	3	51	Systems	Oct	29	120	fire N	Nov	5	30
Edwards, Charles C. — FDA's new boss: Can he cure FDA's many ailments?		24	24	natural gas — will undergo government tests N	Dec	17	69	Ethylene Diamine			
Eiszner, James R Ott Chemical new				Ford program "to minimize pollution from its products and its plants in the	Dec	4,	0,	Ethylene Diamine BASF's new process	Aug	16	102
chairman: A man who'll take a chance	July	12	38	shortest possible time"	Dec	17	23	Terneuzen plant R	Nov	12	30
Elestomers ANIC will double synthetic elastomer				vehicle - competition N	Sept	27	23	Ethylene Dibromide — Ethyl-Dow's plant at Freeport, Tex. will close; Magnolia,			
capacity	Dec	3	23	Enzymes				Ark., plant going onstream N Ethylene Dichloride – Monsanto Iberica	Aug	9	27
Avon Lake, O., plant boosted R Fluorocarbon elastomer	Oct	29	35	Detergents containing enzymes may be the next target of federal consumer				plant at Tarrangona	Aug	30	32
Sales leap	Sept	20	40	safety agencies N IMC and Ajinomoto joint venture to	Dec	10	54	Ethylene Glycel			
Electric Power Generation Cheap power secret: huge plants, long				produce protease enzymes and amino acids in U.S	July		21	Northern Petrochemical's plant near Joliet, Ill., onstream; second will			
Cheap power secret: huge plants, long lines, Western coal (table)	Oct	4	26	acids in U.S. R Imports nearly doubled Novo Industri A/S, major new U.S.	Oct	29	105	be completed in early '70 N Senboku's plant near Osaka R	Nov	26	
(charts & tables)	Oct	29	59	Novo Industri's enzyme fermentation	Nov	5	29	Shortage: four factors are contributing . N	Nov	19	32 75
Electrodeposition - Prince of Wales crowned with aid of 150-year-old chemical process		11	65	Nuclear radiation applying for job in	Nov	19	114	Ethylone Oxide			
	oct	11	63	enzyme processing	Aug	23	74 28	Northern Petrochemical ethylene glycol/ oxide plant near Joliet, Ill., onstream;			
Electrodes Ion-exchange electrodes for potassium		-	**	Radioactive enzymes	Sepi Nov	20	100	second will be completed in early '70 N Aug 23-13	Mari	24	120
detection N Process-control electrodes keep eye	Aug	23	74	U.S. Industries entering the enzyme detergents field	Nov			PEO being marketed in Japan N Semboku's plant near Osaka R	Oct	18	72
on ions	July	26	49	, , , , , , , , , , , , , , , , , , ,		2.0		A	HOV	T.	32

Prof. of overlapped program in a prof. 1867, "reply for own credit for prof. 1867, "reply for own credit f	Ethylana propulana diana Goodrich				Kearns, Henry, new president of Export-				IVD contract for construction of the			
Selection Secretary Company					import Bank, trying for more credit for	hilv	5	23	IVP contract for construction of the "largest nitrogen fertilizer plant in the world"	Cont	12	16
Second pairs at the home, coverage Commercial pairs Commercial p	plant at Orange, Tex	Aug	2	39	Stans favors U.S. adoption of a value-	,	•		Japan boosts fertilizer exports to meet Red China's needs			
Section of the property closes & Company (1985) Compa	_				Round' of negotiations to lessen impact of imports	Nov	26	26	supply Communist China with urea fertilizer from Alaska	Nov	12	28
Description	Chemical giants set for home, overseas				New Jersey seeks 50% hike in world trade		24		Japanese firms negotiating with the	1404	44	20
Production Pro	tables)	Dec	10	33	Nickel: issuance of export licenses for		26		export of nitrogenous fertilizer plant . R Java: Tjirebon fertilizer project			
Aug. 2 2 2 2 2 2 2 2 2 2	bids to become one of Europe's biggest	Oct	10	40	Oil quotas see Imports Sulfur exports are helping to keep the				mexico s Guanos goes south: builds	Oct	4	38
Part	EEC anti-trust team fines nine European	oct	10	67	domestic inventories in line N Swiss chemical industry imports and	Nov -	5	29	unit in Guatemala	Aug	30	32
Description for fact complete	of aniline dyes N	Aug	2	20	exports N	July	5	35	business to Swift			
Fig. Common Com	to-us" response from four companies				Japanese delegation will discuss a	Aug	16	40	Orinoco Chimica plans fertilizer compley			
Comparison from the performance No. 2 2 4 4 4 4 4 4 4 4	Geigy and Sandoz seeking cancellation			48	Textiles: Japan ready for voluntary tex-				Outlook for '70: Overcapacity burdens fertilizer markets (chart)		16	91
Part	ICI appeals fine R			21	Textiles: Japanese delegation hears of the		•	**	Phosphatic prices weaken N	Sept	27	44
Exception character companies in the CEC is reported to prevent particles of the Particles of CEC is appeared to prevent particles of the CEC is reported to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is appeared to the control appeared to the CEC is a	developing a preferential trade agreement	Nov	12	29	economy	Oct	4	19	Producers should step up their marketing	000	•	20
Aug 1.6 1.6	European chemical companies into	hulu	24	27	u.S. exporters of chemicals holding their	Nov	26	24	manufacturing operations (chart)	Oct	11	45
First prince marketers	EEC is reported to be preparing action	July	26	21	own in W. Europe and Latin America, but being outsold by competitors in Asia				industry associations	Oct	18	34
1.5. Trained between the section European Technology and the receivable for the section of the	fertilizer marketers N	Aug	16	48	and Africa: top 10 in chemical trading	Nov	. 5	45	U.S., long-term, good; near-term, dim N Rumanian plans			
Part	of England, Denmark, Norway and				U.S. trade balance: now at \$300-million-				Spain: phosphatic fertilizer project for			
Exception per bareful to free production of table per combined to strengthen the combined to strengthen their chemical per combined their chem	Economic Community N	Dec	10	14	Trade picture isn't likely to get better N	Sept	6	23	Sun Oil will build fertilizer complex on	_	10	
### Exposition on acquisitions and mergers but may be fixed may be a proper or the property of	U.S. give to get reductions? (table)	Dec	10	16	West German 4% export tax was temporarily				Underdeveloped nations continue to		10	
Comparison Com	attention on acquisitions and mergers				Expositions - Paterno '69: a lot of	Oct	18	65	Fertilizers see also individual fertilizers,	July)	34
Fall	competition N	Dec	24	32	technology will be exhibited for sale				Ammonia, Nitrogen, Phosphate etc.			
case centrolage teacher and such as securing of centre destination is large inclinate products of the product to separate natural systems. It is a securing the product to the U.S. Sept. 27 1.6 Bits. 1PA. Nov. 22 1.7 Bits. 1PA. Nov. 22 1.7 Bits. 1PA. Nov. 25 2.7 The posterior covershare processes, Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare proc	Five Eastern European nations have com- bined to strengthen their chemical				or license at a new kind of show this fall	Aug	2	40	Fibers Acrylic fiber prices	Oct	11	42
case centrolage teacher and such as securing of centre destination is large inclinate products of the product to separate natural systems. It is a securing the product to the U.S. Sept. 27 1.6 Bits. 1PA. Nov. 22 1.7 Bits. 1PA. Nov. 22 1.7 Bits. 1PA. Nov. 25 2.7 The posterior covershare processes, Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare processes. Viol. Bits. 1PA. Nov. 25 2.7 The posterior covershare proc	industries: Bulgaria, Czechoslovakia, East Germany, Poland and USSR N	Aug	23	28					Allied's fibers that have silken qualities:			
Again and Europe belt and they beneficial control and the profession in the U.S. Sept. 27 16 Sept. 27	Gas centrifuge to enrich uranium is moving forward				plant to separate natural gas liquids				called Source, and a new nylon dubbed Caprolan Touch	Sept	6	37
Japan and Europe hull and by chemical well perspect have growness support. Nature of the perspect have growness support. Nature of the perspect of the perspec	Italian chemical strike: prelude to European labor strife?	Sept	27	16	at Hastings, W. Va Fish protein concentrate processes, Vio-				Carbon fiber - ICI opting against a com-		19	-
Recept share government support. May 2 3 3 3 3 3 4 5 3 3 3 3 3 3 3 3 3	Japan and Europe build and buy chemical				Bin, IPA	Dec	17	61	Courtaulds' American subsidiary will		.,	,,
Also and Hercules enter patherships compared the patherships of the European Industries pressing water pollution were between the patherships of t	Mergers have government support N	July	26 30	27 31	F				S.C R	Aug	16	42
European industries' pressing water pollution was pollution with a pollution was pollution with a pollution was pollution. See pollution was pollution with a pollution was pollution. See pollution with a pollution was pollution. See pollution with a pollution with a pollution was pollution. See pollution.	Naico and Hercules enter partnerships to								Du Pont's Qiana quickens its pace	Sept	18	
Natural gas Joons large in Europe. Pet 10 22 22 23 24 25 25 25 25 25 26 27 26 27 26 27 27 27	European industries' pressing water	Nov	12	41	Fabric Softener – Textile lubricant C	Sept	20	104	FTC says synthetic fiber manufacturers	000	10	0,
Quinine cartel turget of EEC commission. Not possessed to the commission of the comm	Natural gas looms large in Europe	Dec	10	22	Fotty Acids Armour's J. Gardner: Fatty acids esters				laws	Aug	2	19
Fatly sicil grounds:	commission				production will reach 181 million lbs.	Oct	4	14	modulus graphite fiber	July	5	43
regulations. Sovieths regulate natural gas-pipeline Sovieth regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieth regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieth regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieths regulate natural gas-pipeline Sovieth regulate natura	Quinine cartel will pay \$500,000 in fines for breach of EEC antitrust				Fatty acid products' prices N	July	29	31	Westerly, R.I. expansion R	Sept	13	18
deals in Europe and Japan (CC 29 50 18 69) U.S. chemical companies berrowing record sums in Europe (CC 18 69) U.S. chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical companies berrowing record sums in Europe (CC 18 69) European Petrochemical Assn. Annual meeting (Lst) So, chemical electric sums and the life of the public interest. No Sept 20 61 18 69 European Petrochemical Assn. Annual meeting (Lst) So, chemical electric sums and the life of the public interest. No Sept 20 17 24 European Petrochemical Assn. Annual meeting (Lst) So, chemical electric sums and the life of the public interest. No Sept 20 17 24 European Petrochemical Assn. Annual meeting (Lst) So, chemical electric sums and the life of the public interest. No Sept 20 17 24 European Petrochemical Assn. Annual meeting (Lst) So, chemical electric sums and the life of the public interest. No Sept 20 17 24 European Petrochemical Assn. Annual Called Xe while in development) Some the life of the public sums and the life of the public interest. No Sept 20 18 25 25 25 25 25 25 25 25 25 25 25 25 25	regulations N Soviets negotiate natural gas-pipeline	Aug	5		Kraftco's Humko Products div. is		-		plant in Bowling Green, Md	Dec	17	69
Symbtetic filter outlook cheerful . Oct 18 69 July 12 36 July 12 3	Sulfur: plenty now, more on the way	Oct	4	12	Tenn. plant R	Aug	23	22	sharply	Oct	11	28
European Petrochemical Asan. Annual meeting (Isb.) No. Oct. 11 34 Syndhelic fiber outlook Cheerful No. Oct. 12 34 Syndhelic fiber outlook Cheerful No. Oct. 13 34 Syndhelic fiber outlook Cheerful No. Oct. No. Oct. 13 34 Syndhelic fiber outlook Cheerful No. Oct. No. Oct. Oc	U.S. chemical companies borrowing record				Natural Gas report says demand for				J.P. Stevens during 8-month working	Nov	12	49
Evapore Petrochamical Assn. Calls for an eval was to make it more difficult to form conglomerates Now 12 21 Synthetic fiber outlook cheerful Synthetic fiber outlook Synthetic fibe	sums in Europe	July	12	36	supplies in a "few years" N	Oct	11	33	northern Holland N	Aug	9	24
Synthetic fiber outlook cheerful. Sept 27 58 Explosion-forming method from Foster Mine fer. No Sept 27 58 Explosions Air Products's air-separation plant at El Segundo, Calif., explosion and fire in a compression of provided to provide the public interest. De Porti discontinues final processing of sample of the septiment of the septiment of the wake of the June 4 blast. Illinois Central Railway cars of viryl chloride explode. Kansas City Southern freight train explosion and fire. Chamical explosion and fire in a compression of the septiment of the septimen		Oat	11	24					Monsanto's acrylic fiber plant in Lingen, Germany	Oct	4	20
wheeler with the products of the public interest. Now 2 of the public interest of the public interest. Now 2 of the public interest of the public interest. Now 2 of the public interest.	Synthetic fiber outlook cheerful	Oct			Commissioner P. Flman charges FTC is	Nov	12	21				
Explacions Air Products's air-separation plant at EI Segundo. Calif. explosion and fire in a compressor. Du Pont discontinues final processing of smokeless powder at Campes Point, M.J., cellulose products plant in the wake of the June 4 blast now excludes a number of tesms from FPLA coverage as not visually likely and the stranger of efetival consumer safety and the stranger of efetival consumers and the stranger of efficient consumers and		Sept	27	58	riddled with "waste, inefficiency and indifference to the public interest" N	Sept	20	47	market orientation Northern Ireland's fiber industry escapes	Dec	17	
Segurato, Calif., explosion and fire in a gencies. Segurato, Calif., explosion and fire in a gencies. Du Port discontinues final processing of smokeless powder at Carreys Point, N.J., cellulose products plant in the wake of the June 4 blast N. July 19 18 Felts - CAF industrial products plant in the wake of the June 4 blast N. July 19 18 Kansas City Southern freight train explosion and fire and the production halted by a flash explosion of fire sign and the fire sign	Explosions				Enzyme detergents may be the next				damage during riots N Nylon see Nylon	Aug	30	20
Compress goder at Carneys Point, M. J., cellolose products plant in the wake of the June 4 blast. Inclined Scentral Railway cars of vinyl chloride explode. Sept. 20 38 Sept. 30 36 Sept	Segundo, Calif., explosion and fire in a	_			Fair packaging and labeling regulations:	Dec	10	54	Polypropylene see Polypropylene			
shockers product at Carneys Form. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulose products blast plant in the wake of the June 4 blast. N. J., cellulo	Du Pont discontinues final processing of	Dec	17	24	FTC yielded to pressure by an industry- backed lawsuit, now excludes a number				Rohm & Haas says its new elastic fiber, Anim/8 (called XE while in development)			
Fells – GAF industrial products plant at Westerly, R.I. expansion. R Sept 13 18 Ferric Chloride explode Kansas City Southern freight train explosion and fire Byandotte's Geismar, La, chlorine production halted by a flash explosion N Lexperts Chemical exports totaled \$1.87 billion during the first sever months of '69 N Cell transports Commerce Dept. outlook for U.S. chemical exports Commerce Dept. outlook for U.S. chemical exports of Commerce Sept. and an outland first debarriers Congress' agenda: traite, aid and pollution (table) Dec 24 20 Delaware's chemical industry trade mission to visit USSR and push sales of non- strategic products to Eastern Europe Rest-West trade New focus on Red trade (table) Aug 2 22 Grass growing altempted on North Slope Inports-exports groups: Chloride exports son to self-the inchemical exports son to visit USSR and push sales of non- strategic products to Eastern Europe Rest-West trade New focus on Red trade (table) Aug 2 21 Grass growing altempted on North Slope Imports-exports program: Chemoctakes case to Hill. Japan boosts ferrilizer exports to meet Red China's needs. July 19 45 Fertilizers Fertic Chloride – Prices N Dec 24 Rest-West City plant at Westerly, R.I. expansion. R Sept 13 28 Fertic Chloride – Prices N Dec 24 ARCO dedicates Fort Madison, Ia. Conglex. Oct 11 27 Fertilizers ARCO dedicates Fort Madison, Ia. Conglex. Oct 11 27 Consumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 crop year with oct of traitilizer's N Cotsumption during the '69 cr	N.J., cellulose products plant in the				of items from FPLA coverage as not	Aug	30	19	Synthetic fibers outlook: Slower growth,	Oct	29	116
Kansas City Southern freight train explosion unexplained in the strain of the strain o	Illinois Central Railway cars of vinyl				Felts - GAF industrial products plant at	Sant	13	10	ment in the textile industry (tables):	Nov	26	123
UC's Texas City plant explosion and fire Nov 5 30 Wyandotte's Geismar, La., chlorine production halted by a flash explosion N July 26 38 Exports Chemical exports totaled \$1.87 billion during the first sever months of 69 N Sept 127 Commerce Dept. outlook for U.S. chemical exports us Commerce Dept. outlook for U.S. chemical exports us Commerce Dept. outlook for U.S. chemical exports was Commerce Dept. outlook for U.S. chemical exports was Commerce Dept. outlook for U.S. chemical barriers Commerce Dept. outlook for U.S. chemical exports was Commerce Dept. outlook for U.S. chemical exports was Commerced and montariff trade barriers Commerce Dept. outlook for U.S. chemical exports was Commerced bending plant to wish U.S.R and push sales of nonstrategic products to Eastern Europe R East-West trade New focus on Red trade (table) New focus on Red trad	Kansas City Southern freight train explo-		20				-		Monsanto and American Biltrite	Aug	30	36
Wyandotte's Geismar, La., chlorine production halted by a ffash explosion N July 26 38 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 4 20 Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 4 20 Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 4 20 Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 4 20 Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 1 1 27 Filters Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 1 1 27 Filters Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 1 1 27 Filters Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 1 1 27 Filters Dust filter. C Nov 26 143 Austral-Pacific's Gibson Island, Queensland, nlant onstream. N Oct 1 1 28 Filters Dust filter. C Nov 26 143 Austral-Pacific Sibson Island, Queensland, nlant onstream. N Oct 1 1 28 Filters Dust filter. C Nov 26 143 Austral-Pacific Sibson Island, Queensland, nlant onstream. N Oct 1 1 28 Filters Dust filter. C Nov 26 143 Austral-Pacific Sibson Island, Queensland, nlant onstream. N Oct 1 1 28 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Oct 1 1 28 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Oct 1 1 28 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Oct 1 1 28 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Oct 1 1 28 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Nov 1 1 1 1 27 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Nov 1 1 1 1 27 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Nov 1 1 1 1 27 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Nov 1 1 1 1 27 Filters Dust filter. Oct Nov 26 143 Austral-Pacific Sibson Island, N Nov 1 1 1 1 27 Fil	UC's Texas City plant explosion and		9		Fertilizers					Oct	29	120
Experts Chemical exports totaled \$1.87 billion during the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of the first sever months of '69. N Chemical exports (approximate any of '69. N Continental Oil statempt at a 10's across- the board price boost for all fertilizers Congress' apenda: trade, aid and pollution (table) Dec 24 20 Congress' apenda: trade, aid and pollution (table) Dec 24 20 Congress' apenda: trade, aid and pollution (table) Dec 24 20 Nov 19 16 Congress' apenda: trade, aid and pollution (table) Dec 24 20 Nov 26 143 Continental Oil statempt at a 10's across- the board price boost for all fertilizer and fertilizer and fertilizer Scot and liquid fertilizer Allied wants to buy up to 200,000 shares of its common stock for use in employee benefit programs and other corporate purposes. Allied wants to buy up to 200,000 shares of its common stock for use in employee benefit programs and other corporate purposes. Allied wants to buy up to 200,000 shares of its common stock for use in employee benefit programs and other corporate purposes. Allied wants to buy up to 200,000 shares of its common stock fo	Wyandotte's Geismar, La., chlorine				complex	Oct	11	27				
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Chemical exports of the commercial uses wide markets Commerce Dept. outlook for U.S. chemical exports. Sept. 3 Continental Oil's attempt at a 10% across-the-board price boost for all fertilizers. Less ag chem cuts: three Caribbean units sold to Grace, and liquid fertilizer. Sold to Grace, and liquid fertilizer. Lotse. L	Chemical exports totaled \$1.87 billion				figures show increase	Dec	17	51				
exports CED urges an end to all nontrariff trade barriers N Sept 13 25 Congress' agenda: trade, aid and pollution (table) Dec aware's chemical substry trade mission to visit USSR and push sales of non-strategic products to Eastern Europe. R East-West trade Reast-West trade New focus on Red trade (table) Cet 11 28 New focus on Red trade (table) Cet 11 28 Nov 12 27 Corresponded to be preparing action against fertilizer cartel and other fertilizer marketers Exports going up. Oct 1 3 34 Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer cartel and other fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer cartel and other fertilizer marketers Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer cartel and other fertilizer cartel and other benefit programs and other corporate purposes. Exports going up. Oct 1 3 4 Corresponded to be preparing action against fertilizer cartel and other fertilizer cartel and other fertilizer cartel and other benefit programs and other corporate purposes. Exports going up. Oct 1 3 4 Allied's third-quarter report. A micel Europe's profits in '68 drop. N. July 19 45 An inventory of the year that was. Viewpoint One 17 40 Altantic Richfeld's sales and earnings. N. Nov 12-13 N. Nov 12-13 BASF's group sales in the first nine months increased 54.6%. N. Nov 5 24	Chemical exports ur	Sept	11	23	be down 3-6%	Oct	11	42	and into commercial use: Wide markets	Aug	30	33
barriers N Sept 13 23 sold to Grace, and Highligh fertilizer blending plant at Warboys, England, to Close Nov 26 27 Delawarer's chemical industry trade mission to visit USSR and push sales of non-strategic products to Eastern Europe R East-West trade Reast-West trade Response spoing up. Oct 18 34 Exports going up. Oct 22 Corass growing attempted on North Slope Highliger exports oping up. Oct 11 28 Indian Fertilizer cartel and other fertilizer exports going up. Oct 11 28 Indian Fertilizer Corp. of India will use Montecatini-Edison technology. Read China's needs. Nov 19 117 Japan boosts fertilizer exports program Chemical sports expected to pass the \$1-billion mark Nov 19 147 Japan's Schemical exports exports program sports program for the sports of the sports and other corporate purposes. Reading 23 22 Corass growing attempted on North Slope tundra. Nov 19 117 Japan boosts fertilizer exports to meet Red China's needs. Nov 19 117 Japan's Schemical exports exports program chemotals in the first nine months increased 54.6% Nov 5 24	exports N	July	26	38	the-board price boost for all fertilizers N	July	5	31		Nov	19	16
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Delaware's chemical industry trade mission to visit USSR and push sales of non-strategic products to Eastern Europe. R East-West trade Reast-West trade Reast-W	Congress' agenda: trade, aid and pollution (table)	Dec	24	20	close	Nov	26	27	earnings N	Sept	27	24
East-West trade Aug 2 2 New focus on Red Irade (table) Aug 2 22 Fertilizer exports going up . Oct 4 34 Fiber inventories rise . Oct 11 28 Imports exports going up . Oct 128 Lapan Tools fertilizer exports to meet Red Chinar's needs. Nov 19 117 Augan Booss fertilizer exports to meet Red Chinar's needs. Nov 19 117 Apagan's chemical exports expected to pass the \$1-billion mark Nov 19 19 45 Fiber inventories rise . Oct 11 28 Lapan Booss fertilizer exports program Chemical sylvania . Oct 18 25 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports exports expected to pass the \$1-billion mark Nov 19 19 45 Lapan Schemical exports exports ex	to visit USSR and push sales of non-				against fertilizer cartel and other				of its common stock for use in employee			
Fiber inventories rise Oct 1 28 India - Fertilizer Corp. of India will use Montecation-Edison technology R Dec 3 23 Viewpoint Dec 24 5 Edison technology R Dec 3 23 Viewpoint Dec 24 5 Edison technology R Dec 3 25 Edison technology R Dec 3 26 Edison technology R Dec 3 26 Edison technology R Dec 3 27 Edison technology R Dec 3 28 Edison technology R Dec 17 Edison techn	strategic products to Eastern Europe . R East-West trade	Oct	18	34	Exports going up			48 34	purposes R	Aug		22
Imports-exports program: Chemco takes case to Hill. Aug 2 14 India - Zuari Agro Chemicals' plant in Goa. Aug 30 20 Alagan boosts fertilizer exports to meet Red China's needs. Nov 19 117 India plant at Kanpur inaugurated N Dec 17 32 Apapar's chemical exports expected to pass the \$1-billion mark N July 19 45 Iran takes a petrochemical tack (map) Sept 20 139 Viewpoint Dec 24 5 ANIC's six-month sales N Aug 30 20 Atlantic Richifield's sales and earnings N Nov 12-13 N Nov 12-13 N N N N N N N N N N N N N N N N N N N	New focus on Red trade (table)	Aug	4	34	Grass growing attempted on North Slope tundra N	Aug	23	74	Amcel Europe's profits in '68 drop N			45
Japan boosts fertilizer exports to meet Red Chinar's needs. Nov 19 117 Goa. 127 Goa. 127 Goa. 128 Goa. 129 Goa.	Fiber inventories rise		11	28	India - Fertilizer Corp. of India will use Montecatini-Edison technology R				Viewpoint			
Red China's needs. Nov 19 117 Indian plant at Kanpur inaugurated N Dec 17 32 BASF's group sales in the first nine Immortant plant at Kanpur inaugurated N Cot 18 31 BASF's group sales in the first nine Immorths increased 54.6% N Nov 5 24	Japan hoosts fertilizer exports to meet	Aug	2	14	India: Zuari Agro Chemicals' plant in	Dec		40	Atlantic Richfield's sales and earnings			
the \$1-billion mark	Red China's needs				IMC fighting to break even	Oct	18	31	BASF's group sales in the first nine		-	
	the \$1-billion mark N	July	19	45			20	139		.,		•••

BASF investing \$1 billion in new plants and expansions. N	July Aug	5	35 26	GNP climbed again in the second quarter	July Oct	26 29	13	Tenneco mortgage-pipeline bonds reach record interest	Sept	27	10
balance-or-payment				GNP will grow \$16-billion/quarter in last half '69 (chart)				worth of power bonds in competitive			
U.S A brighter payments picture? Bayer's sales up	Aug	26	30 26	Hoechst's sales in the first half of '69. N	Aug	23	17	bidding R Texans tell how to bankroll young	Nov	5	21
Worldwide sales increase expected N	Nov	5	24	Outlook N	Oct	18	65	chemical ventures	Nov	5	20
Bayer will seek \$75 million in the inter- national money market to cover				How the CPI reads the indicators Huels' first-half sales increased 18.7%,	Nov	12	16	Texas Gulf's earnings	Nov	12	13
Financial requirements of affiliated Bayer Group	Nov	5	14	to \$166.6 million	Aug	16	48	Tight money policy — Economic brakes stay on, but "gradualism" may be dead. "Tighter and more painful controls" may	Dec	17	55
The best control: self-control -				pansion plans N	Nov	26	36	be needed to curb inflation, says FRB's			
Viewpoint	July	5	5	ICI assets could double in the next seven years N	Sept	20	48	Robertson N Union Carbide sales and earnings outlook		27	18
growth based on new products and	D	12	20	ICI's sales and earnings in '69			***	Union Chimique Belge capital investments	3chr	61	1/
external expansion	Dec	17	25	N Sept 13-24 N Nine-month sales and profits N	Oct	11	28	in fiscal '69-'70 will be close to \$20 million	July	5	35
first-half '69 sales and profits	Aug	16	38 21	ICIANZ boosts net profits 15% N	Dec	24	32	U.S. capital spending may slacken -			
Capital expansion: Spending spree in '70 -	MOA	14	21	Interest rates have reached their peak. N IMC fighting to break even	Sept Oct	20	47 31	NICB survey	Sept	6	9
16th McGraw-Hill Dept. of Economics fall spending survey	Nov	5	19	Prospects for '70 are dim N	Nov	19	34	panies			
Capital spending boom slowdown?: Reserve	HOV	,	17	Is economy cooling? Most indicators show a downward trend; Fed may soon reverse				1 Keeping pace with population: "Statistics of Income" for '65 from			
Board survey of '70 spending plans by the nation's 200 largest corporations	Aug	30	15	its restraint policies (chart) Jersey Standard looks to gas, metals and	Aug	23	17	IRS (charts & table)	Aug	16	35
Cassella's sales and profits in '68 N	July	12	33	chemicals for new profits	Nov	19	42	2 Struggling for profit: '65 "Statistics of Income for Corporations" (table)	Aug	16	36
Chemical companies' new plant and equipment expenditures: Commerce Dept-				Kaiser's third-quarter report N Kearns, Henry, new president of Export-	Oct	18	25	3 Building bigger and better: U.S. Census (table)			
SEC survey (table)	Dec	10	20	Import Bank, trying for more credit for				U.S. input/output data - CPI markets:	Aug	16	37
Chemical companies plan hefty 17% increase in '70 expenditures: McGraw-Hill survey	Sept	6	14	U.S. exporters and on better terms N Louisiana losing its lure?	Nov	12	23	rapid growth, sweeping change (tables). Waste-treatment plant appropriations may	Dec	3	39
Chemical firms don't see a recession, but gear for a slowdown	Sept	13	13	Louisiana losing its lure?			**	be increased	July	5	24
Chemical makers continue to go to the	oup.		**	debate on economy; unemployment is chief topic	Oct	- 18	34	Weyerhaeuser Co. stock offering Wyandotte Chemicals: BASF wants	July	12	13
money markets	July	12	18	McCracken's evidence of economic slow-				Wyandotte as a raw-materials base for			
of Inmont's copying products business. N	Nov	5	14	down looks persuasive	Oct	•	15	U.S. expansion (charts)	Sept	6	28
Common Market experts see money pinch pushing European chemical companies				and individual companies in Company				Finland			
into mergers N	July	26	27	Monetary crisis coming? (chart)	Aug	23	18	Ethylene unit near Helsinki R		29	57
Consumer spending see Consumer Spending				Monetary restraint should be continued, says Brimmer of Federal Reserve				Low-density PE plant at Swartbaeck R VCM and PVC plant at Porvoo R		29 13	57 29
Corporate information - SEC will require				System N	Dec	10	13	Finishing — Metal finishers are feeling the brunt of cadmium and nickel shortages N			
companies to break down their spending and earnings reports in greater detail				Monsanto offering sinking-fund debentures N	Sept	27	10	Fire Fighting - Chemical plant operators	Aug	23	59
and issue them more often N	Oct	29	40	Monsanto will finance expansion by				Fire Fighting - Chemical plant operators take college course in fire fighting	Sept	13	59
Corporate profits may drop 8-12% next year N	Nov	26	21	going to the money market N NICB's 17th annual marketing conference:	Sept	13	10	Fire Retardants			
Corporate securities rise (chart)	Aug	23	20 36	Marketers to the fore	Nov	5	19	Fireproof resin is chief binding agent in a paint	July	12	27
Courtaulds' sales and profits N Cyanamid's Siverd: Expects '69 earnings	1604	66	36	NICB survey reports on tight money situation	Aug	9	11	PVC trees - Sales bells ring	Dec	24	67
of \$2-2.05/share and sales of about \$1.085 billion	Dec	17	26	NIH approving no new grants until fiscal '70 budget is settled by Congress N	Nov	19	48	Fire Retardants see also Flome Retordonts Fires – Philadelphia refinery fires N	Sept	13	10
DOD see Defense Department				New Jersey seeks 50% hike in world				Fires see also Explosions	Jept	4.7	
Diamond Shamrock proposed \$45-million offering of sinking-fund debentures				trade in new decade Nixon takes inflation message to business,	Dec	24	25	Fish			
registered N Dow Chemical's domestics in the "red".	July	26	14	labor, and housewife	Oct	29	33	FPC stacks up as best answer to protein			
Dow forms a financial division. Ventures				Northern Natural Gas offering of sinking- fund debentures N Sept 27-10 N	Nov	5	14	Nova Scotia fish protein plant will be built	Dec	17	61
Investment & Finance Co R Dow stock offering N	Aug	23	22	Paine, Webber report shows upward trend of sales, earnings and profit margins				by Cardinal Protein Ltd N	Dec	3	10
Du Pont International places bond issue				slackened sharply in the second				World's largest permanent floating fish- protein plant will be built by a Scandi-			
with major Swiss banks N Du Pont's McCoy says an average of	Aug	30	50	quarter	Aug	23	14	navian consortium N	Oct	4	48
8%/year earnings growth over the next five years would be "reasonable and				tion stock sale N	Aug	2	10	Flame Retardants – Great Lakes, Germany's Kalk swap flame-retardant technology	Dec	17	24
attainable" N	Nov	12	14	Petrochim show a net loss of \$1.15 million in '68	July	5	35	Flame Retardants see also Fire Retordants			
Du Pont's R&D operations: a \$250 million budget; Lenher tells where the				Plant and equipment expenditures: Commerce Dept. survey (table)	Sept		15	Flovors			
money goes Economy is cooling off	Aug	9	15	Plant sites '69 report. J.M. Winton				Ban on sweetener sours flavor outlook too (table)	Nov	5	16
Elcor Chemical having financial problems	Nov	26	21	(charts & tables)	Oct	29	59	Chinese are in a stew over MSG	Dec	10	19
due to startup troubles at Rock House, Tex., plant	Oct	29	25	narrowing: First National City Bank				IMC's Accent may be banned N Liquid carbon dioxide as solvent for ex-	Nov	19	34
Esso's French affiliate will likely show				study covering returns of 1,155 U.S. corporations N	Nov	12	13	tracting flavor and aroma components	tulu		
a net loss for '69 N Ethyl Corp.: Putting new push into	Dec	17	32	Profit outlook: No cause for cheer – Business Benchmarks	July	5	62	from fruits and fruit juices N	July	5	44
Ethyl - report Anthony J. Piombino				Profit preview: they like what they see	July	19	52 19	Floors Floor finish	Sept	20	104
(charts & table) Europe and Japan build and buy chemical	Aug	23	47	- letter	Aug	23	5	Radiation Machinery's nuclear irradiator	Sept	20	104
plants in the U.S. Europe's chemical giants set for home,	Nov	5	25	First-half '69 earnings: plenty of				onstream at Hanover, N.J., plant to produce irradiated wood plastic parquet			
overseas investment drive - report				pluses (tables). First-half '69: in step with the trend	Aug	5	12	flooring N Synthetic turf: legal scrimmage involves	Aug	9	33
(charts & tables). European borrowing by U.S. companies up	Dec	10	33 36	(table) Correction – letter	Aug	23	17	Monsanto and American Biltrite	Aug	30	36
European profits rise: German chemical	,		20	- letter	Aug	30	5	Fluoboric Acid - Prices N	Aug	2	28
companies set pace in profitability (table)	Oct	11	26	First-half gains continue Second quarter: 'Basics' bounce back	Aug	16	38	Fluorides			
Federal Reserve Board moves to further				(table)	Sept	27	16	Alcoa will build fluoride chemicals plant	Ont	10	25
tighten money	July	12	18	Second-quarter: earnings setbacks coming? (tables)	Oct	29	28	in central Florida	Nov	19	97
sales up	Dec	17	17	More net setbacks: third-quarter and nine- month financial results (table)				Fluorocarbons			
Easing '70 foreign spending curbs	Sept	27	17	Fiscal year: 'Off-calendars': it was a	Nov	5	18	Chemicals give leather new glamor	Aug	23	67
Foreign spending by U.S. companies up	Aun	9		pretty good year (table)	Dec	3	15	Du Pont's fluorocarbon elastomer	Sept	20	
Foreign spending going up - Dept. of	Aug	7	16	Third quarter profit picture is bleak – SEC-FTC "Quarterly Financial Report for Manufacturing Corps." (table)				Japanese plant planned R	Nov	19	120
Commerce survey (chart)	Oct	18	16	for Manufacturing Corps." (table) Sales growth declining? — Commerce Dept.	Dec	24	22	Foem			
Nixon Administration offers token easing				survey (chart)	Sept	20	39	BASF Canada's Laval, Montreal, complex	Cont	20	40
of foreign investment controls N U.S. investments in Bolivia getting	Dec	24	31	SEC proposal to require a division-by-divi- sion breakdown of corporate earnings will				ground-breaking N Ceramic foam – Dow obtains rights to	Sept	20	48
close government scrutiny N Franc devaluation: Will devaluation help?	Oct	18	65	be delayed N	Nov	26	35	Selas Corp.'s technology N Dodge uses thin urethane foam protective	Dec	10	68
Funds for waste-treatment plants - Clear,	Aug	16	39	Shell's chemical sales hit \$1.1 billion with 10-11% growth prospect	Nov	19	39	cover over an unchromed bumper	Sept	6	13
cool water: Congress says "Now" (table) German mark revaluation: German chemical	Dec	17	20	Solvay's sales and earnings N	Oct	29	49	Liquid urethane foam systems prices N Low-density nylon foam for water safety	Sept	27	44
the state of the s			16	Standard Oil Indiana inviting tenders of its common in exchange for shares of				and flotation products being test		46	
companies figure it will only hike their	41-			Standard N. Jersey N	Nov	26	22	marketed in Florida N	Aug	30	40
companies rigure it will only hike their cost of doing business 5%	Nov	5	19	Stepan Chemical's third-quarter	Oct	10	25	Olin liquid urethane foam system,			
companies Tigure it will only filke their cost of doing business 5%. Germany: Inflation is troubling German chemical companies — EPCA meeting N	Nov	11	34	Stepan Chemical's third-quarter N Stock outlook: cloudy (table).	Oct	18	22 25 23	Polysystems, products prices N	Oct	4	38
companies figure it will only hike their cost of doing business 5%. Germany: Inflation is troubling German chemical companies — EPCA meeting N Goodrich's public offering of \$100 million of sinking-fund debentures N				Stepan Chemical's third-quarter N Stock outlook: cloudy (table). Stocks: still in dog house (charts & table) Sumitomo's sales in the first halfof'69 N	Oct Dec Aug	30	12	Polysystems, products prices N Olin's urethane foam rug underlay materials plant in Upper Macungie, Pa.R			-
companies rigure it will only nike their cost of doing business 5%. Germany: Inflation is troubling German chemical companies. EPCA meeting N Goodrich's public offering of \$100 million of sinking-fund debentures N Grace zeroes in on the consumer – report	Oct	11 5	34 14	Stepan Chemical's third-quarter N Stock outlook: cloudy (table). Stocks: still in dog house (charts & table) Sumitomo's sales in the first halfof 69 N Syntex Corp. will distribute shares of	Oct Dec Aug Aug	30	12 28	Polysystems, products prices N Olin's urethane foam rug underlay materials plant in Upper Macungie, Pa. R Toyo Rayon seeking government approval			
companies figure it will only nike their cost of doing business 5%. Germany: Inflation is troubling German chemical companies — EPCA meeting N Goodrich's public offering of \$100 million of sinking-fund debentures N	Oct	11 5	34	Stepan Chemical's third-quarter N Stock outlook: cloudy (table). Stocks: still in dog house (charts & table) Sumitomo's sales in the first halfof'69 N	Oct Dec Aug	30	12	Polysystems, products prices N Olin's urethane foam rug underlay materials plant in Upper Macungie, Pa.R	Aug	23	22

Upjohn's rigid urethane foam insulation wins Class A rating for spread-of-flame	Dec	3	29	Proposed acquisition held up by government	Dec Nov	24	32 133	Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, W.Va. Dual-fuel auto engine — gasoline or	Nov	12	50
resistance N	Nov	12	38	Ethylene plant of Soc. Chimique des Charbonnages expansion		3		natural gas — will undergo government	Das	17	10
Food Controlled oxygen atmosphere for food preservation	July	26	28	Europe and Japan build and buy chemical plants in the U.S. Europe's chemical giants set for home,	Dec Nov	5	24	Fueling cars of the future	Sept	17 27 12	69 53 43
Device for extracting protein from common		20		overseas investment drive – report (charts & tables)	Dec	10	42	gasoline hydrogen plant at Sakai installation	Sept	12	29
Drive to get perishable foods off grocery shelves when they become outdated N Duryea: first commercial product based		26	35	Franc devaluation: Will devaluation help? High-density PE plant at Gonfreville R Le Havre and Marseilles-Fos slated for	Aug	16	39 56	What would it cost to reduce or eliminate lead in gasoline? — views from UOP and Ethyl Corp	Dec		71
on high-lysine corn being test marketed in Cali. Colombia.	Aug	2	39	face lifting and industry buildup Mergers have government support N	Dec July	24 26	26	Generators	Dec	24	/1
Fish protein concentrate stacks up as best answer to protein famine	Dec	17	61	Naphtachimie's olefins expansion at Lavera complex near Marseilles R	Aug	16	56	Cesium oxide engines for generating electricity in magnetohydrodynamics (MHD) or thermionic-converter			
up; consolidating existing programs in a new Center for Applied Nutritition N	July	19	52	Nation's two biggest labor unions reject an appeal by Pres. Pompidou to avoid strikes in the interest of economic				systems	Oct	29	120
waste by the dairy industry may be converted into a high-protein food				recovery	Oct Dec	11	34	mill power source (table)	Oct	4	26
supplement N Nutrition conference clashes over 'GRAS'	Nov	12	27	Pulsed laser beam: step toward control		27	57	system dubbed Electradyne N Function generator C	Sept	6	47 57
Protein concentrates made from petroleum:	Dec	10	19	of nuclear fusion	July	19	22	Laser generator developed in France: step toward control of nuclear fusion . N	-	26	57
putting "petro-protein" on the table (table)	Aug	2	41	Rhone-Poulenc buys 25% interest in Soc. Roquette FreresN	Dec	24	32	Germany	3cht	61	31
Protein from cellulose waste products Space exploration will need practical way	Nov	12	49	Rhone-Poulenc plans para-xylene plant at Gonfreville	Dec	3	23	Aniline dye antitrust charges see Antitrust Ashland plans carbon black plant at			
of regenerating food from metabolic wastes	Sept	20	115	Saint Gobain and Pont-a-Mousson		2	20	Speyer, West Germany R BASF investing \$1 billion in new plants	Dec	17	40
Food Additives Ban on sweetener sours flavor outlook too				Soc. Lorraine de Polyolefines plans low-	Aug			and expansions N	July	5	35
(table)	Nov	.5	16 22	density PE plant at Carling R SNPA plans three plants at Gonfreville	Nov	12	25	BASF plans Rhine site for petrochemical intermediates units	Aug	16	57
Cyclamates ban: last week's developments Food antioxidant	Nov Dec	12 24	54 54	Technip looking for an Italian partner, . N Total-Chemie will build aromatics plant	Aug	16	101	BASF urea plant at Ludwigshafen R BASF's group sales in first nine months		17	40
Monosodium glutamate in baby foods con- troversy simmering	Aug	30	19	at Gonfreville N	Sept	27	24	Bayer, BASF sales up	Nov Aug	5	24
Nutrition conference clashes over 'GRAS' charges Safe, sure! — under what conditions? —	Dec	10	19	Freight Rates Across-the-board 6% increase N	Nov	26	120	Bayer expects worldwide sales to increase	Nov	5	24
Safe, sure! - under what conditions? - Viewpoint	Nov	12	5	Another round of increases is coming N Canadian freight rates are shaping up as	Oct	18	57	Bayer plastics capacity expansion	Aug	9	25
Food & Drug Administration				a new threat to potash industry N ICC grants Middlewest Motor Freight	Dec	3	36	chlorine R Bayer will seek \$75 million in the inter-	Oct	11	36
Ban on sweetener sours flavor outlook too (table)	Nov	5	16	Bureau 6% blanket increase in freight rates N	Sept	13	54	national money market to cover financial requirements of affiliated Bayer Group N	Nov	5	14
Controversy of MSG use in baby foods simmering	Aug	30	19	Mixing rule bill for barge lines buried by House Rules Committee N	Nov	19	48	Chlorine-caustic solvents complex at	Oct	29	26
simmering . N Cyclamates – Can PMA get FDA to drop ban?	Dec	17	24	Railroad freight rates not going up; ICC denies requested 6% increase N	Oct	29	40	Stade planned by Dow			
Edwards, Charles C. new head: Can he cure FDA's many ailments?	Dec	24	24	Trip-leased railroad cars used for storage run up chemical makers' costs	July	19	41	their chemical industries N Ethylene venture of BASF and Royal	Aug	23	28
Enzyme detergents may be the next target of federal consumer safety agencies N	Dec	10	54	Frye, Alva - Inmont's Vice-president: Back	July	.,	44	Dutch Shell, Rheinische Olefinwerke, launching expansion program R	Oct	29	57
H-E-W's Finch accuses FDA of making a public relations blunder in the handling			,	to the farm in company drive for diversifi- cation	Nov	5	48	Europe and Japan build and buy chemical plants in the U.S.	Nov	5	25
of its research in the possible danger of cyclamates in artificial sweeteners	Oct	18	31	Fuel				Europe's chemical giants set for home, overseas investment drive - report	1404	,	63
Moves to take eight combination diuretic	Sept	20	47	Dual-fuel auto engine — gasoline or natural gas — will undergo government tests . N NAS: give chemical companies top	Dec	17	69	(charts & tables)	Dec	10	36
NAS to review all scientific data on monosodium glutamate's effect on	3cp.		**	priority on fossil fuel use	Nov	26	28	attention on acquisitions and mergers that may be harmful to free competition N	Dec	24	32
nerve cells	Oct	11	33	Nuclear fuel see Atomic Power Nuclear power may replace chemical power	A		47	Gas centrifuge to enrich uranium is moving forward	Nov	26	133
charnes	Dec	10	19	in space exploration rockets N Oil refiners face challenge of designing	Aug	16	47	Hoechst and Saarbergwerke plastic film joint venture in Neunkirchen R	Aug	16	57
Ouster of Herbert Ley, Jr., seen as the administration's first step in the shake- up of the agency; Charles Edwards				a fuel for future autos	Sept	27	53	Huels' new plants and expansions planned for next three years	Aug	30	32
named successor	Dec	17	17	(charts & tables)	Oct	29	59	ICI's nylon and polyester plant at Offenbach N	Oct	4	20
power streamlined	Oct	4	16	Fuels see also High Energy Fuels				Inflation is troubling chemical companies — EPCA meeting	Oct	11	34
million oxytetracycline capsules N PMA suit to block FDA from enforcing a	Dec	17	31	Prices N July 5-31 N	Sept	20	109	Japanese-German joint venture to produce cosmetics	Dec	24	39
new regulation enlarging its authority to ban a drug	Nov	12	27	USS chemical buildup Fungicides — Nonmetallic paint fungicide C	July Dec	5	16 43	Labor problems from for chemical producers N	Oct	4	20
Regulations describing scientific criteria for determining the acceptability of medi-				Furnaces — Teflon-lined furnace for recovery of sulfuric acid from sludge installed in				Mark revaluation: chemical companies figure it will only hike their cost of			
cal evidence of a drug's effictiveness	Sept	27	23	American Oil's Texas City refinery N	Sept	6	48	doing business 5%	Nov	5	19
issued	Nov	12	27	_				Naphtha cracker at Stade or Terneuzen	Oct	29	24
Safe, sure! - under what conditions? - Viewpoint	Nov	12	5	G				planned by Dow	Oct	29	52
Special committee on oral contraceptives concludes that "the pill" should remain on the market; closer watch on side effects called for.				Gabon - Ammonia fertilizer plant	July	5	34	National Lead opens titanium dioxide plant at Nordenham R National Lead plans plant to make gellants and suspending agents in West	Sept	13	29
effects called for	Sept	13	16	Air Products & Chemicals' industrial gas				Germany	July Sept	12 20	21 48
label products containing the antibiotic novobiocin	July	26	14	plant at Cleveland expansion R Air Products will double industrial gas	Sept	13	18	Phrix Werke ups nylon output R Polypropylene plant at Wesseling, West	Aug	16	56
Formaldehyde				capacity at Burns Harbor, Ind N Industrial gases' outlook: new processing,	July	5	10	Germany	July	5	34
BASE and Heinrich Koppers form new team	Nov	. 12	43	pollution-control uses boister outlook (chart)	Sept	27	39	are mushrooming	Oct	11	34
in technology N Borden solidifying its position as No. 1 U.S. producer and beefing up methanol				Japanese project to develop a gas centri- fuge for enrichment of propane N	Aug	23	73	spillage of endosulfan insecticide Officials still unable to explain the	July	5	18
and the second s	Aug	23	19	Japanese town gas process, called MRG.	ring	-	"	Source	July	19	52
Celanese formaldehyde capacity expansion	Aug	9	11	to produce a gas made up of methane, hydrogen and carbon dioxide N	Nov	19	89	onstream at Wesseling	Oct Aug	11 16	36 57
Celanese formaldehyde capacity expansion at Bishop, Tex	•			Phosgene shipping from Army Arsenal halted by USDOT Sept 20-38	Sept	27	14	Soviets negotiate natural gas-pipeline			50
Celanese formaldehyde capacity expansion at Bishop, Tex	Nov	5	13	Pinelines see Pinine				deal	Oct	29	20
Celanese formaldehyde capacity expansion at Bishop, Tex	Nov	19	79	Pipelines see Piping Poison gas disposal will be according to	tule	12	25	Three firms will participate in the uranium	D	2.0	
Celanese formaldehyde capacity expansion at Bishop, Tex. N Monsanto's capacity at Springfield, Mass, will be upped. Processing licensing competition — catalysts: key to four processes — letter. Reichhold plans formaldehyde and	Nov Nov Dec	19	79 8	Pipelines see Piping Poison gas disposal will be according to NAS recommendations N Propane futures trading: COMEX will	July			enrichment centrifuge project N West German chemical industry boom N	Dec July	10 19	68 45
Celanese formaldehyde capacity expansion at Bishop, Tex. N Monsanto's capacity at Springfield, Mass, will be upped N Processing licensing competition — catalysts: key to four processes — letter Reichhold plans formaldehyde and synthetic resins at Albany, Ore. R Forming — Low-temperature, explosion-	Nov Nov Dec Dec	19 17 10	79 8 22	Pipelines see Piping Poison gas disposal will be according to NAS recommendations	July			enrichment centrifuge project N West German chemical industry boom N West German chemical giants continue to lead the European profitability	July		
Celanese formaldehyde capacity expansion at Bishop, Tex. N Monsanto's capacity at Springfield, Mass., will be upped Processing licensing competition — N Processing licensing competition — catalysts: key to four processes — letter Reichhold plans formaldehyde and synthetic resins at Albany, Ore. R Forming — Low-temperature, explosion-forming method.	Nov Nov Dec	19 17 10	79 8	Pipelines see Piping Poison gas disposal will be according to NAS recommendations				enrichment centrifuge project	July	11	68 45 26
Celanese formaldehyde capacity expansion at Bishop, Tex. N Monsanto's capacity at Springfield, Mass, will be upped N Processing licensing competition — catalysts: key to four processes — letter . Letter . Letter . Letter . Return to the synthetic resins at Albany, Ore R Forming — Low-temperature, explosion-forming method N	Nov Nov Dec Dec	19 17 10	79 8 22 58	Pipelines see Piping Poison gas disposal will be according to NAS recommendations				enrichment centrifuge project. N West German chemical industry boom. N West German chemical glants continue to lead the European profitability parade (table). West German 4% export tax was temporarily shelved West Germany and Poland resume trade	July Oct Oct	11	26 65
Celanese formaldehyde capacity expansion at Bishop, Tex. N Monsanto's capacity at Springfield, Mass, will be upped. N Processing licensing competition — catalysts: ley to four processes — letter — catalysts: ley to four processes — letter — catalysts: ley to four processes — letter — Remaining — Low-temperature, explosion-forming method. N Fractionation — Con Gas starts up a large cryopenic olant to separate natural gas	Nov Dec Dec Sept	19 17 10 27	79 8 22 58	Pipelines see Piping Poison gas disposal will be according to NAS recommendations		2	27	enrichment centrifuge project. N West German chemical industry boom. N West German chemical glants continue to lead the European profitability parade (table). West German 4% export tax was temporarily shelved. N	July	11	26

Wyandotte as a raw-materials base for U.S. expansion (charts). Germicides – GAF's polyvinylpyrrolidone – letter Gilbert, Carl – President Nixon's nominee as special trade representative. No ASP stand — Sta	by 1	6 28 9 128 0 5	8	Continental Oil plans refinery and other industrial plants N Kaiser considering participation in a joint aluminum complex N Grinding — Zirconia grinding media	Aug Aug Sept	30	10 10	Hydrogen Bromide - Israeli petrochemical	July Oct	26	51 23
letter Gilbert, Cari — President Nixon's nominee as special trade representative: No ASP stand Jul Glava Cellulated glass beads, tossed onto oil spills, could be the answer to some spill control problems N Glaverbel reveals glass that is as strong as steel, by VHR process N PPG's low-resistance, electrically con- ductive glass called Nesatron N Photochromic glass for information storage and display devices See Photochromic glass may be the basis for computer components N Relflective glass coatings N Relflective glass coatings C Au Ultralow-expansion glass for commercial	ly ly	0 5	5		Aug	30	10		Oct	4	23
as special trade representative: No ASP stand Cellulated glass beads, tossed onto oil spills, could be the answer to some spill control problems. No Glaverbel reveals glass that is as strong as steel, by VHR process. No PPG's low-resistance, electrically conductive glass called Neastron. No Photociromic glass for information storage and display devices. Set Photochromic glass may be the basis for computer computer components. No Reflective glass coatings. Cultralow-expansion glass for commercial cultralow-expansion glass for cultralow-expansion glass for cultralow-expansion glass for commercial cultralow-expansion glass for cultralow-expansion gla	nc 1	5 18	3	Grinding - Zirconia grinding media C			100	annual de atentamental a analysis de			
Cellulated glass beads, tossed onto oil spills, could be the answer to some spill control problems. N Glaverbel reveals glass that is as strong as steel, by VHR process. N PPG's low-resistance, electrically conductive glass called Neastron N Photocromic glass for information storage and display devices. Sephotochromic glass may be the basis for computer computer computer computer computer computer components. N Reflective glass coatings C Ultralow-expansion glass for commercial				Guatemala - Mexico's Guanos goes south:				Hydrogenation - Drew Chemical's	July	5	39
spill control problems De Glaverbel reveals glass that is as strong as steel, by VHR process N PPG's low-resistance, electrically conductive glass called Nesatron N Photochromic glass for information storage and display devices Sephotochromic glass may be the basis for computer computer computer components N Reflective glass coatings C Ultralow-expansion glass for commercial C Au				builds fertilizer unit	Aug	30	32	Boonton, N.J. plant: Chemical regenera- tion of the nickel catalysts used to hydrogenate fats and oils	Dec	10	63
as steel, by VHR process N PPG's low-resistance, electrically con- ductive glass called Nesatron N Photochromic glass for information storage and display devices Sep Photochromic glass may be the basis for computer components. N Reflective glass coatings C Ultralow-expansion glass for commercial C Ultralow-expansion glass for commercial	ent 1	7 70	0	gypsum plant is having trouble N	July	12	43	Hydrolysis - Z-M process: for cleaner	Sept	13	63
Photochromic glass for information storage and display devices. Set Photochromic glass may be the basis for computer components. N Au Reflective glass coatings C Ultralow-expansion glass for commercial				Н				- letter		ii	5
Photochromic glass may be the basis for computer components. N Au Reflective glass coatings C Au Ultralow-expansion glass for commercial				Hair Sprays - Men's hair-spray				Production, sales and outlook N	Aug	16	101
Ultralow-expansion glass for commercial		0 117		formulation C	Sept	20	104	Signal commercial hydroquinone project at Bayport, Tex., N July 26-51 N A Signal Chemical to make resorcinol by	ug	16	101
niszes N Oc	10	2 35	5	Hawaii – Refinery planned N Health	July	26	14	proprietary process as a springboard into hydroquinone production: plant			
Glass Container Mrs. Institute — Two-year- old environmental pollution control	:t	4 47	7	Air Pollution see Air Pollution Nixon Administration says federal government should set and police health and				at Bayport, Tex N	Oct	11	55
program Oc Gloss Fibers	ct	4 4	4	safety standards for most U.S. manu- facturing plants N	Aug	9	12				
Automobiles – Low-profile, sheet-molded glass fiber for volume production				Noise: new pressure on plants Nutrition conference clashes over 'GRAS'	Dec	3	17	Imports ASP see Tariffs			
Oldsmobile intermediate models Sei Japan's producers plan buildup Sei		6 1	3	United Kingdom study shows no significant correlation between sugar consumption	Dec	10	19	Argentina's fertilizer industry expects	luke		21
Japanese plant planned for '71 R No Markets are booming, thanks mainly to	OV I	9 12	ó	and heart disease	Aug	30	39	dumping by European producers N China boosts fertilizer imports	July Nov	19	117
PPG and Asashi studying feasibility of	ec 1	10 5	3	Heat Exchangers Cryogenic vaporizer	Sept	20	101	barriers N	Sept	13	23
a joint glass-fiber products venture in R No	OV	5 2	1		Dec	24	54	Congress' agenda: trade, aid and pollution (table)	Dec	24	20
Rayon - Polyester battle for tire market: Ford abandons the PEG-BB tire N Oc	ct :	11 4	1	Heat Treatment Selas Corp. develops high-velocity, supersonic burner capable of vaporizing				foreign producers N Tariff Commission ruling on dumping	Sept	13	23
Glutaraldehyde - Chemicals give leather glamor Au	ug i	23 6	7	a piece of quarter-inch steel plate from a distance of 12 in.	Sept	27	49	Ruling N Dumping: Treasury Dept. says Canada,	Dec	3	35
Glycine – Investigation of aminoacetic acid (glycine) imports from France started by Tariff Commission N De		3 1	0	Sterilization by a combination of heat and nuclear radiation	Oct	11	56	West Germany and France are dumping potassium chloride in the U.S N	Aug	30	19
Glycol Ether - Olin's plant at Bradenburg,		19 2		Heaters - Commercial nascent oxygen? - Humphreys' electrically driven bulk				Dye imports up	Sept	20	40
Ky., onstream		17 5		heater that operates continuously N	Oct	11	56	(table) Enzyme imports nearly doubled N	Oct	29	105
Geld Another large drain on U.S. gold stocks				Canada – Nova Scotia's Glace Bay plant: U.S. team report	July	12	43	Fiber inventories rise	Oct	24	28
may result from a new agreement to increase the quotas of members of the				Indian plant will use an ammonia-hydrogen exchange process to separate deuterium	July	**	1,	Celler, Rep. says foreign trade zones have not been administered properly N	Aug	16	47
Prince of Wales crowned with aid of		16 4	17	from heavy water N Helium — Re-evaluation of the federal	Oct	11	56	Creation of a foreign trade subzone for a shipmaker at New Orleans		-	
150-year-old chemical process Oc Two-tier price system for gold N		18 4	10	helium conservation program is recommended	Dec	17	31	upheld by a federal court N Machiasport, Me.: Atlantic Richfield plans to build a refinery July 5-15	July	5	24
Composites may find use as implant				Henske, John - Olin's J. Henske: A sailboater changes course in mid-				Oxy's Machiasport, Me., refinery: Hammer promises to import	July	12	20
Fortafil 5-Y new high-strength, high-			51	Herbicides	Oct	29	144	Venezuelan oil Houston oil men organize 'to disseminate the facts' about the oil, gas and petro-	Aug	9	16
	uly	5 4	13	California will crack down on dicamba herbicide	July	5	10	chemical industries	Dec	24	25
Grass growing attempted on North Slope tundra N A	100	23 7	7.4	Chlorinated insecticides fighting to hold a market (table)	July	12	31	Investigation of aminoacetic acid (glycine) imports from France started by Tariff Commission N	Dec	3	19
Synthetic turf: legal scrimmage involves		30 3		Monsanto herbicide formulation unit in Lillo, Belgium R	Oct	11	36	Italy's chemical imports from U.S. increased 14.4%N	Aug	23	28
		20 10		Hibb, Roger F. — UC's Nuclear Div. president: Nuclear's where the action is	Sept	13	73	Japanese resistance to U.S. demands for fewer textile imports appears to be			
Great Britain				High Energy Fuel Apollo 11: chemical fuels used in flight N	July	26	51	crumbling N LPG feedstock shortage may mean more gas liquids imports from Canada (charts)	Sept	20	37
Antibiotics use in animal feed	ict	29 4	19	Combination of gelled hydrogen and slush hydrogen as a rocket fuel N Tripropellant systems may be feasible	Nov	12	43	National Foreign Trade Convention: Stans favors U.S. adoption of a value-added	Sept	20	31
Enzymes research pushed N	lov	12 4	15 14	for rocket engine for new space shuttle vehicle	Sept	27	23	tax; Percy calling for 'Nixon Round' of negotiations to lessen impact of imports New Jersey seeks 50% hike in world	Nov	26	26
Europe and Japan build and buy chemical plants in the U.S	ov	5 2	25	Hungary - Chemolimpex investing \$54 million in a Canadian potash project . N	Aug	2	20	trade in next decade	Dec	24	24
overseas investment drive - report (charts & tables)	ec	10 3	38	Hydrides - Sodium dihydro-bis(2- methoxyethoxy) aluminate, new, safe,				will be increased N Oil quotas	Nov	26	35
Gas centrifuge to enrich uranium is moving forward	iov	26 13	33	organometallic hydride N – letter	Nov	20 19	123	A PI fights changes in oil rules	Nov	19	43
Gas from biggest onshore field will be tied into the national grid N Hoechst expansion move in the U.K.:	Lug	2 4	40	Hydrocarbons Cryogenic recovery of liquid hydro-				net-level task force	Nov	26	35
takeover bid for paint producer Berger, Jenson & Nicholson, and negotiating				carbons from natural gas has replaced oil absorption in W. Virginia N	Nov	5	35	(table) Depletion cut: maybe 27%	July	5 2	14 15
with Reed paper group for possible joint ventures N N	voy	26	36	Protein concentrates made from petroleum: putting "petro-protein" on the table (table)				Imports-exports program: Chemco takes case to Hill	Aug	2	14
ICI opting against commercial carbon	Nov		36 90	UC's Hydrocarbon Div. formed to manage	Aug	2	41	Justice urges end of MOIP New England delegation to the House asks that recommendations of the White House	Aug	23	19
ICI's unique labor contract: making a new pitch for productivity	Aug		55	worldwide procurement and production of hydrocarbon raw materials	July	19	20	Task Force on Oil Import Control be made public	Oct	18	32
Kerns ine plant evpans inn near	Oct		56	up as the best single answer to the problem of pollution from autos called				Oil companies need a new tune - View- point	Aug	2	5
Billingham R O Major English textile companies are barred from merging; acquisition of English companies by foreigners also				F-310 N	Dec	24	72	Oilers' reply: keep mandatory import program PetroChem oil plan: equity for all? New	July	26	20
ruled out	July	26	13	Anhydrous hydrochloric acid prices N Israel petrochemical complex	Dec Oct	24	58 23	chemical industry group proposes oil imports compromise	Nov	26	28
U.K. needs fewer, but stronger, equipment	Oct	29	56	Prices N	July	5	31	Rumored changes in the U.S. oil import	Dec	10	28
makers and engineering contractors N N Vinatex adding a second PVC unit at	Nov		33	Hydroflueric Acid Du Pont will build anhydrous HF plant				control program. R Tariffs to replace oil import quotas? White House Task Force on Oil Imports drafting final details of a new tariff	Dec	17	26 14
Stavely	July	5	34	adjacent to sulfuric acid installation at Burnside, La	Nov	12	14	drafting final details of a new tariff system on oil importsN	Dec	17	31
Aluminum Co. probing magnesium possibil-	Aug	2	10	Prices N	July	5	31	Russia imports cesium oxide from Tantalum Mining of Canada N Swiss chemical industry imports and	Oct	29	115
			15	Hydrogen Air Products' plant in LaPorte, Tex. on- stream	July	26	38	Swiss chemical industry imports and exports N	July	5	35

Trade bill: No surprises in trade bill — nor in chemicals' criticism	Nov	26	24	Bayer acquires 80% interest in Norstroem and Sjorgren	Nov	12	32	Tenneco acquires more than 10% of the stock of Albright & Wilson N Tenneco acquires Southeastern	Nov	5	24
dependence on Russian supplies N U.S. trade balance: now at \$300-million/-	Oct	29	106	Rubber and Adanlock-Jamestown and wrapped up a public offering of 335,000 shares of its common N	Ont	11	23	Aniline	July	19	26
U.S. trade balance, first nine months '69.	Aug	23	18 21	Cabot will buy UC's Stellite operations N	Oct	11 24	21	interest in American Mineral Spirits Western from Atlantic Richfield R U.S. Gypsum will acquire Kinkead	Aug	16	42
better N	Sept	6	23	Catalan Chemicals and S.A. Cros	Aug	2	20	Industries	Aug	30	16
U.S. trade policy has low priority at the White House	Sept	13	23	resume merger talks	Sept		9	Corp	Aug	30	16
West Germany's chemical imports are up N Zinc comsumption and imports N	July Aug	19	45 28	be sold to Union Pacific RR N Celanese will sell 50% interest in Konam N.V. to KZO	Oct	4	15	Electric merger plans terminated R UOP may sell Alamet Div. to Leckenby	Aug	16	42
India				Central Solvents & Chemicals acquires Southern Solvents & Chemicals R	Aug	23	22	Co	Oct	4	10
Fertilizer Corp. of India plants will use Montedison technology R	Dec	3	23	Central Soya has bought Rigo Chemical	Aug	30	16	Eversharp merger	Sept	27	9
Fertilizer plant inaugurated in Kanpur . N Heavy-water plant will use an ammonia-	Dec	17	23 32	Ciba and Geigy merger may be contingent on a U.S. Justice Dept.	rang	30	*0	Hill's Pacific Division N	Oct	11	22
hydrogen exchange process to separate deuterium from heavy water N	Oct	11	56	ruling N Cities Service acquires General	Sept	13	10	Mergers and Acquisitions see also Company Index under individual company names			
Indian Petrochemical's aromatics plant at Koyali	Oct	11	36	Technologies Corp	Aug	30	16	New Jersey seeks 50% hike in world trade in next decade	Dec	24 17	24
Nylon plant in Madhya Pradesh N Polyester fiber capacity boost N	Sept Sept	6	24	shares N Sept 6-9, N Oct 11-21 N Darrill Industries acquires Armour Dial's	Oct	29	26	Pacific's CPI prospects: proposed power/ chemicals complex could spur trade in	Dec	1/	29
Indonesia – Japanese chemical producers plan plants	Sept	27	27	synthetic detergent manufacturing and distribution operations in Chicago N	Dec	3	9	Far East (table)	Sept	6	41
Industry Developments	Sept	21	21	Dart Industries acquires Southeast Latex, subsidiary of Southeast	Dec	,	,	build a petrochemical plant in Venezuela	Nov	10	114
Air Products & Chemicals seek better balance: 50% chemicals	Aug	40	41	Chemical & Plastics R Dart Industries' Rexall Div. and Com-	Oct	18	34	A review of the chemical industry's top business stories of '69 — report	Nov	19	114
An inventory of the year that was - Viewpoint	Dec	24	5	monwealth United merger plans terminated	Aug	16	42	Royal Dutch/Shell drilling for magnesium and potassium in north of Holland's	Dec	24	40
Area developments see Area Development Conglomerates: FTC fights togetherness	Dec		,	Dart Industries will acquire Nappe-	Dec	24	18	Groningen province N Russian chemical industry output up:	Oct	29	49
trend	Nov	12	21	Smith Mfg N DeSoto will purchase Kerns Furniture; acquires Quartite Creative R	Aug	30	16	snags remain (chart)	Dec	17	35
Dow's capital spending program: Building to hold No. 1 spots; spending \$1.150	Aug	,		Du Pont will acquire Endo Labs. Oct 18-33	Dec	24	18	for control of British paint producer Berger, Jenson & Nicolson N	Dec	24	18
billion since '65 (table)	Nov Dec	19 17	40	Firestone tentative agreement to acquire MCA N	July	26	14	Spain: Minister Lopez de Letona takes over chemical push	Nov	12	29
Ethyl Corp.: Putting new push into Ethyl	000	.,		Acquisition terms altered N Fusion Systems acquires Fusecolor	Aug	30	10	Sumitomo plans buildup	Nov	19	118
report Anthony J. Piombino (charts & tables). Europe's mergers have government	Aug	23	47	Grace buys majority interest in French	Aug	30	16	companies 1 Keeping pace with population: "Statis-			
support N Europe's mergers make problems	July Aug	26 30	27 31	edible oils and soap producer Salador N	Aug	2	10	tics of Income" for '65 from IRS (charts & table)	Aug	16	35
EEC experts see money pinch pushing European chemical companies into				Grace's sales of 53% interest in Miller Brewing to Philip Morris completed;				2 Struggling for profit: '65 "Statistics of Income for Corporations" (table)	Aug	16	36
mergers N European governments are focusing more	July	26	27	PepsiCo files suit	Aug	12	21	3 Building bigger and better: U.S. Census (table)	Aug	16	37
attention on acquisitions and mergers that may be harmful to free				Great Lakes Chemical will acquire Cavedon Chemical N	Aug	23	13	Weyerhaeuser expansion program N	Dec	3	9
competition	Dec	24	32	Gulf Resources & Chemical will enter into the coal business; acquisition				'Intelligence' service for 150 federally			
companies set pace in profitability (table)	Oct	11	26	of C&K Coal under study N Hercules acquires the outstanding	Nov	19	34	funded civil programs available from DMS, Inc	Oct	11	22
Great Lakes Chemical's rise has been buoyed by bromine; its future growth				capital stock of Radiant Color R ICI's Butakon division sold to Standard	Aug	16	42	ference: no evidence of critical in-			
will come from new chemicals and diversification (charts)	Nov	19	53	Brands, Inc	Aug	9	24	efficiency in the nation's scientific and technical communications	July	5	45
S84.5 million for two big chunks of its				Atlantic Lumber Co	Dec Oct	17	18	Photochromic glass for information storage and display devices	Sept	20	117
holdings in Atlantic Richfield N Gulf will sell shares of Goodrich	Sept		9	M&T Chemicals acquires Forestal Industries' Cruikshanks Division R	Nov	11	32	Infrared — Stack gas monitors: how to keep watch on what goes up the stack (table)	Aug	2	31
Hercules counts on New Enterprise Dept.	Nov	12	22	Marion Labs. will acquire International Pharmaceutical and Certified Labs R	Nov	12	21	Inks — Emulsion, solution polymers C	July	56	57
for additional growth	Oct	29		Acquisitions completed R Martin Marieta will increase its holdings	Dec	17	26	Inland Waterways			
chemical ventures	Aug	30		in Harvey Aluminum N Nov 5-14 N Miles Labs. bought Bekerley Medical	Dec	24	17	St. Lawrence Seaway — CPI traffic: only 5.5% (chart & map)	Aug	23	63
ICI opting against a commercial carbon fiber plant in the U.K	Nov	19		Instruments, a division of Nuclear- Chicago Corp	Dec	24	26	push for funds	Nov	12 18	19
Japanese firms negotiating with South	1404	.,	,,,	3M plans to acquire Dart Industries'	July	19		out an in materials;	oci	10	04
Vietnamese government for the export of a nitrogenous fertilizer plant R Jersey Standard looks to gas, metals and	Dec	17	40	Acquisition okayed N Merger in process of being wrapped	Nov	5	26 14	Insecticides California will crack down on use of two			
chemicals for new profits	Nov	19	42	Mobil selling most of its retail fertilizer	Dec	3	10	pesticides N Chlorinated insecticides fighting to hold	July	5	10
up: mobster-run sales agency pressured	July	5	13	business to Swift	Nov	12	14	a market (table)	July Aug	12	31 5
A&P to sell detergent	Oct			completed	Aug	23	22	world to be reduced	Dec	24	72
Mergers: first-half '69 chemical industry mergers up 34.7% (table)	July			National Lead to acquire McCullough Tool	July	12	21	DDD and DDT applications will be restricted to uses "essential" to the			
Mergers & Acquisitions Abbott Labs. completes acquisition of				North American Rockwell and Molded Fiber Glass Companies merger N	Nov	19	33	preservation of human health or welfare, H-E-W's Finch	Nov	19	42
Murine	Dec			Northern Petrochemical acquires Weskem Corp	Aug	9	12	DDT — California state assembly's agri- culture committee rejects bill to outlaw			
Alcolac Chemical acquires Western	Sept	20		merger called off N	Sept Dec	27	9	DDT - USDA suspends use of DDT during	Aug	9	11
AKU and KZO agree to combine	Sepi		10	Phelps Dodge acquires Western Nuclear N	Sept	6	10	review of its effect		19	24
AKU and KZO agree to combine N July 19-45, N July 26-27 R AKZO obtains a controlling interest in				Rohm & Haas acquires Consolidated Biomedical Labs. R Nov 5-21 R	Dec	17	26	ping \$30-billion suit	Oct	29	31
Astral	Nov			Saint Gobain and Pont-a-Mousson merger N St. Joseph Lead and Hanna Mining	Aug	2	20	ban on it made by Ray Smith N - letter	Aug	12	44
French government N American Cyanamid acquires Sargent	Dec			merger plans terminated R Slick Corp. to acquire Southern Press	Aug	16	42	DDT makers must look ahead - Viewpoint - letters Aug 9-5	July Sept	12 13	5
Calcium N American Cyanamid plans to buy Midland-Ross' IRC Fiber Div N	July			& Fiber Media Co	Sept	20	43	DDT's partial ban now in effect; complete removal is set for '71	Dec	3	15
Ashland Oil will acquire 46.8% stock interest in Canadian Gridoil	Oct			operations N Sept 6-10, N Oct 11-22, Nov 5-5, N Nov 26-21	Dec	3	10	Dieldrin is getting a bad press again N Ethers look good in early tests for insect control N	Sept	20	
Ayrshire Collieries and Amax merger becomes effective Oct. 31 R				Spain's biggest corporate marriage:	Dec	17	17	FMC's products particularly effective on	Aug	17	34 82
BASF acquires a 50% interest in Elastomer AG			5 35	UEE merges with Rio Tinto July 19-48	July	26	27	flying insects Mobil Chemical's plant at Mt. Pleasant, Tenn., to produce Mocap pesticide	Oct	11	28
BASF wants Wyandotte as a raw- materials base for U.S. expansion				Staley, A.E. Mfg. to acquire Charlotte Chemical Labs	Aug			Rhine River fish kill blamed on barge's spillage of endosulfan insecticide	July	5	18
(charts)	Sep	× ·	4 28	Sun Chemical's takeover of Chemetron: rebuffed but still wooing	Sepi			Officials still unable to explain the source	July	19	
BASF-Wyandotte Chemicals merger talks N Aug 16-34, N Aug 23-28, N Sept 27-9 N Oct 11-22	No	v 1	2 13	Susquehanna violated federal securities law following its successful tender offer for 38% of PASCO's common				Toxic pesticides: three federal agencies have filed applications to use some of			
Baird Chemical Industries acquires Lonza Ltd	Oct		4 10	offer for 38% of PASCO's common stock rules SEC examiner N	Aug	30	9	them in the vicinity of the nation's capital	Aug	9	21

								P-418			
USDA admits it failed to enforce decision to require a new safety warning on labels				Courtaulds plans polyester fiber plant at				Fertilizer exports boost to meet Red China's needs	Nov	19	117
of Shell's No-Pest strips N USDA resumes its program of spraying	July	5	23	Carrickfergus. N Northern Ireland's fiber industry escapes	July	26	14	Fine-particle PE made by nuclear radiation begins test phase	_	17	70
airports with pesticides	Nov	5	20	damage during riots N	Aug	30	20	German-Japanese joint venture to produce	Dec	24	20
USDA's Pesticides Regulation Div. described as "an almost incredible				Iridium – Prices N	Nov	12	38	Glass fibers buildup		27	27
failure" N Institute of Electrical & Electronics	Dec	3	19	Iran - HyL plant for direct reduction of				Hercules-Teijin joint venture to make DMT in Japan	Aug	23	35
Engineers - Tape-recorded workshop				iron ore possible N	Sept	6	48	Industrial group considering uranium enrichment in Japan	July	10	51
on computer process control languages, IPL-'69	Dec	3	51	Jersey Standard's direct iron ore reduc- tion process: what's in store? N	Sept	13	67	New plants, expansions R	Dec	17	40
Institute of Gas Technology - Fleet testing	Dec	17	22	Marconaflo technique in moving iron ore	Aug	2	39	Nippon Carbide and Mitsubishi plan melamine plant at Kashima R	Aug	9	25
of vehicles fueled by natural gas Institute of Physical & Chemical Research —	Dec	17	23	from Peru to the U.S	Muy	-	37	PPG and Asashi studying feasibility of			
Gaseous diffusion experiments N	July	19	51	answer in building low-cost, compact computers and telephone switching				Paraffin joint venture by Maruzen Oil	Nov	,	21
Instrument Society of America — Meeting seeks new ways to simplify control				systems N	Aug	16	102	and Kanegafuchi planned R Petrochemicals: Japan builds a \$500-	July	5	34
panels as complex processes add more instruments to central control rooms	Nov	5	33	Irradiation				million project – its biggest N	July	5	34
	1400	,	22	Nuclear radiation applying for job in enzyme processing	Aug	23	74	Polyethylene oxide being marketed N	Dec Oct	18	20 72
Analyzer-controllers	Sept	20	101	RMC nuclear irradiator onstream at Hanover, N.J., plant to produce	Aug	.,	14	PVC capacity up	Aug	23	35
The dynamic equipment/engineering industry – letters Aug 16-5	Sept	20	16	irradiated wood/plastic parquet				enrichment of propane N	Aug	23	73
Electronic gas checker C	Aug	2	35	flooring N	Aug	9	33	Pyrolysis gasoline hydrogen plant at Sakai installation R	Sept	13	29
Elemental analyzer C Fluoride ion analyzer C	Dec Nov	19	43 97	Bayer will build plant at Newcastle,				Resistance to U.S. demands for fewer textile imports appears to be crumbling N	Nov	5	23
Fume detector	Nov Sept		101	Australia N	Oct	29	49	Russian agreement for construction of a 900 mile gas pipeline connecting Okha			-
Gas analyzer				Experimental isocyanate E-320 prices. N Polymeric isocyanate prices N	Nov	26	120	with Hokkaido N	Sept	20	48
add more instruments to central control				Prices	Aug	26	28	Russians negotiate natural gas-pipeline deal	Oct	29	50
Ion-exchange electrodes for potassium	Nov	5	33	to its polyurethane chemicals complex				Sanyo Petrochemical's second ethylene			**
detection N	Aug	23	74	at La Porte, Tex	Nov	5	13	plant awa ts government approval R Showa Denko plans plastics center	Nov Sept	19	27
Liquid level indicator	Sept	20	101	Freeport, Tex	Oct	18	66	Sumitomo plans buildup . Teijin, Japan's biggest polyester producer,	Nov	19	118
Process-control electrodes keep eye on ions	July	26	49	Israel				seeks oil in Libya R	Aug	23	35
Stack gas monitors: how to keep watch on				Petrochemical complex near Tel Aviv	Oct	4	23	Teijin petrochemical buildup R Teijin plans polyester tube plant R	Aug	23	35 25
what goes up the stack (table)	Aug Sept	20	31 101	Phosphate mining project gets green light N	Dec	3	20	Textiles: Another try for textile curbs;			
Trace-impurity analyzer	Nov	19	101	Potash expansion	Dec	24	39	Japanese delegation will discuss a curb on textile exports to the U.S	Aug	16	40
Ultrasonic Solution Analyzer to measure solids contents of solutions and				Products Research - Lewin, M. aids				Trade negotiations new approach Thiokol will team with two Japanese firms	Nov	19	44
Suspensions N Ultraviolet fire detector C	July	23	79	J.P. Stevens during 8-month working visit to textile lab	Nov	12	49	to build Japan's first polysulfide mono-			
Water-quality monitors C	Aug	23	79	Italy				mer plant N Toyo Rayon polypropylene plans N	Dec Sept	10	28
Insulation — Upjohn's rigid urethane from foam insulation wins Class A rating				ANIC will double synthetic elastomer				World's largest natural gas liquefaction plant on Borneo will use U.S.			
for spread-of-flame resistance N	Nov	12	38	capacity	Oct	4	23	technology N	Oct	4	47
Interferon				Chemical industry labor costs will increase	Dec	17	32	Japanese Petrochemical Assn. — Chemical makers are resisting naphtha suppliers'			
First solid evidence that poly I:C induces interferon production in humans pre-				DDT use curtailed N	Nov	26	134	efforts to raise prices N Java – Fertilizer plant at Tjirebon	Sept	6	34
sented by M. Hilleman of Merck Institute N	Dec	24	72	ENI electrochemical complex in Calabria R	Dec	17	40	July 5-34	Sept	27	27
New preventive for foot-and-mouth disease stimulates interferon production by in-				Europe's chemical giants set for home, overseas investment drive – report				Joint Conference on Prevention and Control of Oil Spills — Still no cure for spill ills:			
jecting RNAN	Dec	3	45	(charts & tables)	Dec Sept	10	44	new idea at oil spill meeting; series of 'hovercraft' to contain oil in bubble			
				Imports from the U.S N	Aug	23	28	barrier	Dec	24	23
Alky phosphorous intermediates C	Nov	19	97	Mobil expands Naples petrochemical plant	Dec	24	39	Joint Engineering Management Conference — Managing new engineers: Six prophecies			
Aminoethylethanolamine prices N	Aug	16	88 100	Montecatini-Edison expands chemical operations in southern Italy	Oct	4	23	for the 70's	Oct	29	133
Butyl benzoate				Neofil's polypropylene fiber plant at	-	10					
Bishop, Tex. N Sept 20-34 R Cyclic olefins C	Sept	20	43 35	Terni N Orinoco Chimica plans fertifizer complex	Oct	18	66	K			
Furoic acid and 3-methyl-2-phenylbutyric acid	Dec	3	43	at Potenza N Plant to synthesize magnesium oxide	July	12	33	Manager			
Halogen nitroanilines	Aug	16	110	from sea water to be built at Syracuse, Sicily	Nov	10	111	Phillips-Imperial Petroleum expands plant			
Lepidine, derivatives	Dec	24 16	110	PVC unit planned by Societa Chimica	-	19	113	in England	Oct	29	56
Prices	Oct	29	106	SARP plans \$1-billion chemical and	July	5	34		July	2.0	3.
meeting: Glaverbel revaels glass that is			4	petrochemical complex for Sicily N Strikes: Prelude to European labor strife?	Nov	12	28	Acrylonitrile plant at Ulsan, South			
as strong as steel by VHR process N International Conference on Marine Pollu-	Sept	13	68	Continue to plague the chemical industry				Korea N Perlite joint venture R	Nov	17	120
tion - Oil spills: who has to pay?	Nov	26	28	N Oct 11-34 N Union calls for periodic 48-hour	Nov	26	36	Kroft, Fred. Jr. – UC's Ferroallovs Div.		• ,	
The International New Products Center – Patexpo '69: a lot of unused but				strikes N Labor pot keeps boiling N	Nov	12	28 32	new president: The club champ takes over division.	Nov	26	150
potentially significant technology will be exhibited for sale or license at a new				Technip looking for an Italian partner N			101				
kind of show this fall N	Aug	2	40	_							
Interstate Commerce Commission – Reorganization plan N	Aug	2	19								
		•		Inniesen I Manuelle Inner Standards				Labeling			
Copper: increased supplies for commercial				Jamieson, J. Kenneth – Jersey Standard's new chiefs Jamieson and Briscoe plan				Drive to get perishable foods off grocery shelves when they become outdated N	Nov	26	35
uses due next year N	Nov	26	120	to keep growing in chemicals	Sep	t 6	53	Rule requiring "proper" instructions for laundering and drycleaning on textile	1404	20	3.
Fiber inventories rise	Oct	11	28	Japan Application autout upped (table)	le de	. 10	47	products proposed N	Nov	19	7
Sales growth declining? - Commerce Dept. survey (chart)				Acrylonitrile output upped (table) A luminum plant planned by Mitsubishi	Jul	y 19		Labeling, drugs see Drugs			
Suffur. What next for the his sulfur	Sepi			Chemical	Sep		27	Labeling, law see Low			
	July	26	17	Ammonia units planned by Ube Ammonia Industry and Japan Gas-Chemical R				Argentine labor unrest despite a wage			
Sulfur exports are helping to keep the		5	29	Butadiene extraction plant R	Sep	t 13	35	increase N	Nov	12	2
producers? Sulfur exports are helping to keep the domestic inventories in line	Nov		22	Butadiene joint ventures R	Aug	23	35	Avisun strike at polymer plant in New Castle, Del	Oct	18	3
producers? Sulfur exports are helping to keep the domestic inventories in line N Sulfur inventories N	Nov		37	Chemical exports expected to pass the							
Sulfur inventories in line N	July	19		Chemical exports expected to pass the \$1-billion mark	jul	y 19	45	Chemical process companies' labor			
Sulfur inventories in line	July	19		Chemical exports expected to pass the \$1-billion mark. Chemical makers are resisting naphtha suppliers' efforts to raise prices				troubles are a certainty for next year; OCAW (and other unions) plan to ask			
ton Exchange Electrodes for potassium detection N Ion exchange appay off in soybean processing N	Aug	19		Chemical exports expected to pass the \$1-billion mark. No Chemical makers are resisting naphtha suppliers' efforts to raise prices. No Chemical producers plan plants in	Sep	ıt 6	34	troubles are a certainty for next year; OCAW (and other unions) plan to ask for "unusually large wage increases" says Pres. Grospiron N	Nov	19	3
omestic inventories in line N Sulfur inventories N Ion Exchange Electrodes for potassium detection N Ion exchange may pay off in soybean processing N Ions — Process-control electrodes keep	Aug	23 18	74 72	Chemical exports expected to pass the S1-billion mark N Chemical makers are resisting naphtha suppliers' efforts to raise prices. N Chemical producers palse prices. N Chemical producers palse plan plants in Southeast Asia, Indonesia Chioropene rubber buildup R	Sep Sep	t 6	34 27	troubles are a certainty for next year; OCAW (and other unions) plan to ask for "unusually large wage increases" says Pres. Grospiron	Nov	19	3
oomestic inventiories in line N Sulffur inventiories N Ion Exchange Electrodes for potassium detection . N Ion exchange may pay off in soybean processing . N	Aug Oct	23 18	74 72	Chemical exports expected to pass the \$1-billion mark Chemical makers are resisting naphtha suppliers' efforts to raise prices N Chemical producers plan plants in Southeast Asia, Indonesia Chicoppene rubber buildup. Ethylene oxide-ethylene glycol plant near Osaka	Ser Ser Au	et 6	34 27 35	troubles are a certainty for next year; OCAW (and other unions) plan to ask for "unusually large wage increases" Says Pres. Grospiron N CPI construction costs are sure to climb in Chicago area due to new contracts with building contractors N			
omestic inventories in line N Sulfur inventories N Ion Exchange Electrodes for potassium detection N Ion exchange may pay off in soybean processing N Ions — Process-control electrodes keep eye on ions ,	Aug Oct	23 18	74 72	Chemical exports expected to pass the S1-billion mark. N. Chemical makers are resisting naphtha suppliers' efforts to raise prices. N. Chemical producers plan plants in Southeast Asia, Indonesia. Chicoprene rubber buildup. R. Ethylene oxide-ethylene glycol plant near Osaka. B. Ethylene plant for USSR using US	Ser Ser Au	et 6 et 27 g 23 v 12	34 27 35 32	troubles are a certainty for next year; OCAW (and other unions) plan to ask for "unusually large wage increases" says Pres. Grospiron N. CPI construction costs are sure to climb in Chicago area due to new contracts with building contractors CPI construction costs at Cincinnati:	Dec	10	31
omestic inventories in line N Sulfur inventories N lon Exchange Electrodes for potassium detection N Ion exchange may pay off in soybean processing N Ions — Process-control electrodes keep eye on ions	Aug Oct July	23 18 26	74 72	Chemical exports expected to pass the S1-billion mark. Chemical makers are resisting naphtha suppliers' efforts to raise prices	Ser Ser Au	et 6 et 27 g 23 v 12	34 27 35 32	troubles are a certainty for next year, OCAW (and other unions) plan to ask for "unusually large wage increases" says Pres. Grospiron CPI construction costs are sure to climb in Chicago area due to new contracts with building contractors NCPI construction costs at Cincinnati: Can labor costs be curbed? (chart) CPI employment rises	Dec Aug July	10	14
oomestic inventories in line N Sulfur inventories N lon Exchange Electrodes for potassium detection N lon exchange may pay off in soybean processing N lons – Process-control electrodes keep eye on ions , lion lion – HyL plant for direct reduction of	Aug Oct July	23 18 26	74 72 49 48	Chemical exports expected to pass the \$1-billion mark Chemical makers are resisting naghtha suppliers' efforts to raise prices. Notherical producers plan plants in Southeast Asia, Indonesia Chicopene rubber buildup. Ethylene oxide-ethylene glycol plant near Osaka Ethylene plant for USSR using US technology N July 19-45	Ser Ser Au	ot 6 ot 27 or 12 or 12 or 12 or 15 or 15	34 27 35 32 39 25 120	troubles are a certainty for next year; OCAN (and other unions) plan to ask for "unusually large wage increases" says Pres. Grospiron N CPI construction costs are sure to climb in Chicago area due to new contracts with building contractors N CPI construction costs at Cincinnati Can labor costs be curebed? (chart)	Dec Aug July Dec	10 16 19 17	14

Formula to a bloom to be a solution of the											
France's two biggest labor unions reject an appeal by Pres. Pompidou to avoid				Computer programs may not be patent- able per se, but the operation of com-				Wisconsin bill would ban "sale or use of detergents containing phosphorus" N	Sept	6	33
strikes in the interest of economic	Oct	11	24	puters that are controlled by the pro-				Zwach bill to permit states to set more	Sept	0	23
recovery N Germany: labor problems loom for	Oct	11	34	grams may be — Prater-Wei case N Programs may be patentable under new	Aug	23	73	stringent rules on the discharge of radioactive wastes than those imposed			
Chemical producers	Oct	4	20			18	40	by AEC introduced N	July	12	25
ICI's unique labor contract: making a new	Sept	20	40	Conglomerates investigation started N Congress' agenda: trade, aid and	Aug	9	21	Lead			
pitch for productivity	Aug	16	55		Dec	24	20	Bill to let government sell 100,000 tons			
labor war	Oct	4	14	taxes and tax reform are now the				of lead at a negotiated price rather than by competitive bids approved N	July	19	31
ICWU may have forced a showdown with AFL-CIO Pres. G. Meany by affiliating with Alliance for Labor Action N ICWU ousted from AFL-CIO: Discord				dominant issues, but battles are brewing					Aug	23	60
with Alliance for Labor Action N	Aug	30	9	on trade, aid, pollution	July	12	16	Oil Shale milling operations at Keystone Mine in Crested Butte, Colo., begun. R	Sept	12	18
ICWU ousted from AFL-CIO: Discord				DDT ban see DDT				rrices N July 19-3/ N	Dec	3	36
resounds in labor's halls	Oct	11	25	Du Pont files cargo damage suit against Blue Star Line and Southern Towing. N	Sept	20	34	St. Joseph Lead site preparation on pro- ject in the Brushy Creek area, Mo R	July	5	19
affect nickel markets N	July	19	38	FTC charges producers of petroleum		20	24	Lead Acetate - Prices N		16	87
Canadian sulfuric acid users are feeling the impact of the strike	Aug	16	87	coke with restraint of trade	Dec	17	25	Lead Nitrate - Prices N		16	87
32-month contract will cost the company	ring	10	0,	FTC fair packaging and labeling regula- tions: FTC yielded to pressure by an				Leasing			
\$97 million (Canadian) in additional labor costs N	Nov	26	119	industry-backed lawsuit, how excludes a number of items from FPLA coverage				Justice Dept. will look into joint hidding			
Italian strike: Prelude to European labor				as not being "consumer commodities" N FTC says synthetic fiber manufacturers	Aug	30	19	by major oil companies, presumably in- cluding those on Alaskan oil leases	Oct	18	34
strife?	Sept	27	16	FTC says synthetic fiber manufacturers may be violating restraint of trade				New rules for oil, gas and sulfur leasing on outer continental shelf proposed N			
industry N Oct 11-34 N	Nov	26	36		Aug	2	19	Offshore Lexas and Louisiana lease	July	5	24
Union calls for periodic 48-hour strike N Labor pot keeps boiling N	Nov Dec	12	28 32	Foreign trade zones: creation of a foreign trade subzone for a shipmaker				sales will resume under stricter			
Italy: chemical industry labor costs will				at New Orleans upheld by a federal				regulations N Sen. Hart accuses Hickel of planning to	Sept	6	23
increase	Dec	17	32	Foreign Trade Zones Act: proposal to	July	5	24	"give away" 10 000 acres of the rich.			
Settled R	Nov	12	22		July	26	25	est federal shale deposits in Colorado . Trip-leased railroad cars used for storage	Oct	18	33
Louisiana losing its lure? MCA serves as forum for new round of	Nov	12	19	GM stockholders suit against Du Pont				run up chemical makers' costs	July	19	41
debate on economy; unemployment is				General Tire will pay the government	Aug	23	20	Leather			
Merck strike at three U.S. plants settled N	Oct	18	34 13	\$50,000 to settle civil claims for alleged				Chemicals give leather new glamor	Aug	23	67
Mexican chemical workers union proposes	July	26	15	wiolations of the national traffic and motor vehicle safety act N	Nov	5	23	Cleaning problems have been solved, in			
nationalization of chemical industry N	Nov	26	36	Goodyear charges Diamond Shamrock and				laboratory, at least	July	12	44
NLRB rules retired employees' pension benefits must be bargained for by the				Mobay infringing its urethane patents N Grace's sale of 53% interest in Miller	Oct	18	71	Synthetic shoe-upper materials			
company with the union representing	fort.	30		Brewing to Philip Morris completed:				exhibited N	Nov	19	76
active workers	July	19	31	PepsiCo files suit	Aug	2	9	Lepidine (4-methylquinoline)	Dec	24	54
look for new sources (tables)	Nov	5	31	set standards for emulsifiers and dis-				aids J.P. Stevens during 8-month working visit to textile lab			
Noise: new pressure on plants OCAW votes for 3-year contract at Union	Dec	3	17	persants used to clean up oil spills N Maleic hydrazide: U.S. district court in	Sept	27	23	working visit to textile lab	Nov	12	49
Carbide R	Oct	18 19	34	N.Y. bars Uniroval from enforcing				Libya	1		
Olin strike settled	Nov	5	44 16	patent against Ansul	Nov	12	13	Petrochemical buildup	Nov	12	28
Plant sites '69 report. J.M. Winton				alleging infringement brought against				foreign oil companies it wants higher			
(charts & tables)	Oct	29	59	Phillips Petroleum, Diamond and East-	July	5	43	prices tags on oil	Sept	13	10
N Oct 4-10 N	Nov	19	34	man Kodak	July	,	43	producer, seeks oil in Libya	Aug	23	35
Nationwide rail strike in January: threat heightens	Dec	24	17	the federal government would buy commodities for states and localities —				Licensing — Foreign licensing performance appraised in NICB report			
Rail strikes: 'Selective' rail strikes?	Sept	6	16	cutting off distributors N	Aug	23	27	Lime in treatment of raw sewage - Ontario	July	26	52
State-by-state comparison of labor costs (table)	Oct	29	77	Nixon Administration is ignoring the				Water Resources Commission test	0.1		
Texas buildup slowed by strikes	July	5	16	Group N	Aug	23	27	program	Oct	4	48
Union bargainers set to press for bigger settlements in '70	Nov	12	18	Nutrition conference clashes over				marketing of lithium carbonate N	Aug	23	22
Wage-price control possibility keeping				'GRAS' charges	Dec	10	19				
business edgy N Larson, Clarence E. — nominated to a five-	July	26	25	Olfactory air pollution - Public wrath over				Protein from cellulose waste products	Nov	12	49
year term on the AEC	July	5	23	plant odors spurs use of "neutralizing" aromas (table)	Aug	16	94	Researchers use both chemical and micro-	1400	46	4,
Lasers				Partin, Edward Grady indicted	July	5	16	bial means to break down woody fibers into a digestible protein	Aug	2	44
lon laser C Laser generator developed in France: step	July	19	32	Patent bill: reformers lose	Aug	16	38	Lubricants			
Laser generator developed in France: step toward control of nuclear fusion N	Sept	27	57	nationalize all major landholdings	July	5	15	Extreme-environment lubes C	Nov	19	104
Successful all-chemical laser reported. N	Nov	5	35	PMA suit to block the FDA from enforcing a new regulation enlarging its authority				Textile lubricant C White lubricant for finishing corduroy	Sept	20	104
Lotex				to ban a drugN	Nov	12	27	fabrics	Aug	16	110
Heat-reactive latex C Styrene-butadiene production capacity	Aug	16	110	Plant sites '69 report. J.M. Winton	0-1	20	**	Lumber - Substitution of synthetic			
Styrene-butadiene production capacity	Dec	3	10	(charts & tables)	Oct	29	59	materials for lumber in home-building should be encouraged by the federal			
will be tripled by Borden N 2-sulfoethyl methacrylate (SEM), new		,		to cover products not used in the name.				government, says R. Mayo N	Nov	26	35
monomer from Dow N	July	12	44	but stored on the premises, is sought by Nixon Administration	Oct	11	33				
				Silver: Rep. Conte opposes minting silver collars bearing the likeness of Dwight				M			
ACLU wants to stop oil companies from				D. Eisenhower	July	26	25	741			
drilling new wells in California's Santa		10		Sohio merger to BP's American operations N Sept 6-10, Nov Oct 11-22, Nov 5-5,				Machinery Machine tool orders dropN	Aug	30	10
Barbara Channel N U.S. Supreme Court upholds right to	Nov	19	34	N Nov 26-21 N	Dec	3	10	Orders due for drop — Business			
drill for oil N	Dec	3	46	Merger okayed	Dec Nov	17	17 42	Benchmarks	July	12	56
Air pollution control see Air Pollution Amsterdam court orders Centrale Suiker				Stretch yarns patent: Leesona asks court to decide relative rights of company and	NOV	17	46	Magnesia	-		
Mantechannii and Culkeminia II A to				to decide relative rights of company and	0-4	20	00	Israeli petrochemical complex	Oct Aug	23	23 60
stop advertising "unfounded, destruc- tive criticism" of cyclamates N Aniline dye suit see Antitrust	Aug	30	39	64 licensees	Oct	29	89		rug		00
Aniline dye suit see Antitrust		-		Monsanto and American Biltrite	Aug	30	36	Magnesium Aluminum Co. probing magnesium possibil-			
Antipollution laws: headaches and opportunities for CPI	Aug	23	37	Tanker Torrey Canyon oil spillage case settled N	Nov	19	33	ities at Great Salt Lake N	Aug	2	10
Antitrust cases see Antitrust		-		Tetracycline cases				Dow building magnesium mill products	Dec	24	26
Argentina will offer its chemical industries cheap feedstock gas	Aug	. 9	25	International Rectifier files restraint of trade suit	Dec	24	26	plants	000		
Ashland Oil suing T.C. Morrow; claims that Wanda's earnings were overstated R	-			Third chapter in tetracycline's tale:				Royal Dutch/Shell drilling in Groningen	Sept	6	15
Birth control pill case: Los Angeles	Dec	10	22	Justice seeks \$25 million in damages. Tin catalysts for making urethanes patent	July	26	20	province, Holland N	Oct	29	49
County jury dismisses damage suit				dispute N Transit program in trouble	Nov	12	44 39	UOP may sell Alamet Div. to Leckenby	Oct	8	10
against G.D. Searle's Envoid N California will crack down on use of two	Oct	11	21	USDA admits it failed to enforce decision	Aug	16	39		001	,	10
pesticides and one herbicide N	July	y 5	10	to require a new safety warning on labels of Shell's No-Pest strips N	to be			Magnesium Chloride Israeli petrochemical complex	Oct		23
Calumet Enforcement Conference: Chicago's Metropolitan Sanitary District				U.S. Supreme Court rules there is no	July	5	23	Prices N	Dec	24	58
denies extension of pollution control				patent, if there is no synergism from				Magnesium Oxide — Plant to synthesize magnesium oxide from sea water to be			
deadline N Carter-Wallace's patent on meprobamate,	Sep	t 6	47	using several known elements N Water pollution: plans to control pollution	Dec	17	69	built at Syracuse, Sicily N	Nov	19	113
tranquilizing agent marketed as Miltown,				of nation's coastal areas may be		10		Magnesium Sulfate - Prices N	July	5	31
upheld	Oct	11	22	delayed	Dec	10	27	Magnetics — Micro "magnetic bubbles" may be the answer in building low-cost,			
four companies	Oct	11	55	Water pollution: Senate approves a strict water pollution control bill N	Oct	18	40	compact computers and telephone		-	
Chicago's Metropolitan Sanitary District will seek injunction against Interlake				Water pollution control see also Water Pollution				switching systems N Maintenance — Computer planning of	Aug	16	102
Steel for polluting the Calumet Basin. N	Sep	t 27	58					instrument maintenance produces savings	Nov	19	108

Maleic Anhydride BASF and Heinrich Koppers form new team in technology. N	Nov	12	43	U.S. Borax's new president, Carl L. Randolph: A sailor drives the mule team U.S. data show chemical process companies	Oct	•	53	Medical Developments Carbon or graphite composites may find use as implant materials in humans . N Rechargeable alkaline battery system	July	19	51
Tex. plant	Aug	23	13	1 Keeping pace with population: "Statistics of Income" for '65 from IRS				that would be small enough and reliable enough to be implanted as a heart pacemaker.			
Prices N July 5-31 N USS chemical buildup	Dec	17	56 16	(charte & table)	Aug	16	35	heart pacemaker Thin, strong, unsupported silicone rubber	Oct	4	26
Maleic Hydrazide — U.S. district court in N.Y. bars Uniroyal from enforcing its				2 Struggling for profit: '65 "Statistics of Income for Corporations" (table)	Aug	16	36	membrane will permit the building of	0-1	20	110
maleic hydrazidé patent against Ånsul N	Nov	12	13	3 Building bigger and better: U.S. Census (table)	Aug	16	37	more compact heart and lung machines N Medical Developments see also Health	Oct	29	119
Acquisitions and mergers see Industry				(table) Velsicol Chemical's new president, Robert Garrison: Ready to go global Venture management: Chemical companies try new techniques to manage new ventures	Sept	27	63	Melanine			
Developments and individual company names in Company Index Air Products & Chemicals seeks better				Venture management: Chemical companies try new techniques to manage new ventures Whittaker's Arnold Miller of Materials Sub-	Dec	17	47	Nippon Carbide and Mitsubishi plan plant at Kashima R	Aun	9	25
Air Products & Chemicals seeks better balance: 50% chemicals	Aug	40	41	Whittaker's Arnold Miller of Materials Sub- group: Fervor for R&D mustn't sway my				Plants and processes — U.S. melamine makers adopt Dutch process to foil	riug	,	-
Alcon sets up environmental control divi-	-			judgment on P&L	Dec	24	84	import threat (table)	July	12	49
American Aniline Products' new president	Dec	17	26	Wyandotte Chemicals: BASF wants Wyandotte as a raw-materials base for U.S. expansion (charts)	Sept		28	Membranes			
A. (Alvin) Lloyd Phillips: Managing by the Golden Rule	Aug	30	45	Manganese - Economic assessment of the	sept		20	Reverse-osmosis and ultrafiltration moving out of the laboratory and into commercial			
Ashland Oil corporate reshuffling: Senior V.P. Yancey becomes chief operating				manganese at the bottom of Lake Michigan being undertaken N	Oct	4	48	use: Wide markets for thin membranes (chart)	Aun	30	22
officer of the parent company and presi- dent of newly formed Ashland Petroleum				Manpower, Technical				- letter	Nov	19	16
Div.; Blazer continues as chairman of the board; O. Askins as president and chief				Asian engineers and scientists have dis- placed Europeans as the largest group				Thin, strong, unsupported silicone rubber membrane will permit the building of more			
executive officer: #m. Ferguson new	No.	24	22	of professionals now entering the U.S.	July	5	45	compact heart and lung machines N Viable solution — dynamiscally formed	Oct	29	119
head of Ashland Chemical Div N Blasius Industries' sales gains and	Nov	26	25	(table)		20		membranes - letter	July	12	8
growth based on new products and external expansion	Dec	17	25	ICI's unique labor contract: making a new	Aug	40	43	First solid evidence that poly I:C induces interferon production in humans presented			
Cabot Corp.'s new president and director, Robert A. Charpie: It was big news in				pitch for productivity Intrigue them when they're young - View-	Aug	16	55	by M. Hilleman N	Dec	24	72
Boston when a Cabot talked to a Charpie Calgon's new president, Ted Welton:	July	19	69	point (June 21-5) — letter	July	19	5	Metals			
Hoping to help Merck clean up Camp Laboratories' president,	Aug	23	83	debate on economy; unemployment is chief topic	Oct	18	34	Autocoast Ti-22 racer built with weight- saving metals: significant for producers			
G.C. Neumann: Seeking big opportunity in little firm.	Sept	20	146	Managing new engineers — Six prophecies for the '70s	Oct	29	133	of titanium and aluminum Mechanical alloying combines two well- known techniques for strengthening	Oct	18	61
Carbide's Roger Hibbs: Nuclear's where	-			Professional pitfalls - letter	July	26	5	metals — dispersion hardening and pre-			
the action is	Sept	13	73	corporate tax laws	Oct	11	68	cipitation hardening	Nov	12	50 37
C.C. Candee: Reorganizer finds little time left for relaxing	Aug	9	14	Science as a foreign policy tool gains favor with Pres. Nixon N	Sept	6	23	Metallurgical products prices N	Dec	19 17	56
	Aug	40	43	Manufacturing Chemists' Assn.				Mobile home production: Not so 'mobile', but going places (chart & table)	Oct	18	29
careers in teaching Conoco restructuring of corporate divisions and realignment of executive responsibili-				Chemical industry is "strongly opposed" to the repeal of duty brawback, declares				Nonferrous metal prices N	Sept	13	53
ties, including election of president and chief executive officer okayed	Ann	30	15	Christopher N Forum for new round of debate on	Aug	16	33	Conductivity meter	Nov	19	101
Ethyl Corp.: Putting new push into Ethyl - report Anthony J. Piombino (charts &	Aug	30	15	economy; unemployment is chief topic Meeting (19th semiannual): Clash over	Oct	18	34	Mass flowmeter C Moisture meter C	July	5	41
table)	Aug	23	47	proposed ASP	Dec	3	16	Vortex shedding flowmeter keeps tabs on process pipelines' fluid pulse beat	Dec	,	43
Ettinger, M.B. ("Moe") new book "Standard Methods for the Mediocre Science Manager	' Dec	24	77	Marketing				(diagram)	Aug	16	107
Europe's merger-created firms' top problem: demoting le directeur	Aug	30	31	Brighter future for fertilizer? Sales figures show increase.	Dec	17	51	"Vortex shedding" new type of flow- meter	Aug	9	33
GAF's Robert Myers is new vice president of R&D	Nov	19	128	Chlorinated insecticides fighting to hold a market (table)	July	12	31	Methanesulfonates	Dec	24	54
Grace zeroes in on the consumer – report Meyer Lurie (tables, charts)	Sept		30	Du Pont's Qiana quickens its pace Europe and Japan build and buy chemical	Sept	6	37	Mothenol Borden solidifying its position as No. 1			
Great Lakes Chemical: Trying harder pays off (charts)	Nov	19	53	Plants in the U.S. Fertilizer makers are told they need more	Nov	5	25	U.S. formaldehyde producer and beefing		••	
Hercules counts on New Enterprise Dept.	Oct	29	32	marketing muscle (chart)	Oct	11	45	up methanol capacity. Escambia plans to double capacity at	Aug	23	19
for additional growth Houston Natural Gas weighs expansion of chemical ventures	Oct	30	32	paigns are boosting sales; anti-leak formulas at center of a controversy	Dec	24	62	Formaldehyde processing licensing	Nov	5	14
How to hire minorities	Sept	20	40	How to court the consumer - report				competition – catalysts: key to four processes	Nov	19	79
ICI America's new chairman and chief exe- cutive Wm. Duncan: In new U.S. job,				Herbert Terry (table) Kaiser organizes Kaiser Trading Co. and	Aug	16	59	G-P's Wilson discusses methanol capacity, prices at NAPM meeting	Oct	18	58
Scotsman seeks new worlds to win	Dec	3	54	will enter the international commodity trading field "on a major scale" N	Aug	9	27	Hercules' Plaquemine, La. plant starts production	Sept	27	44
pitch for productivity. Inmont's Alva Frye: Back to the farm in	Aug	16	55	Liquid fertilizer marketing cost study. N Mafia link with chemical industry turns	Oct	4	38	Markets will change drastically says	Dec	24	57
company drive for diversification Jersey Standard's new chiefs, Jamieson	Nov	5	48	up: mobster-run sales agency pressured A&P to sell detergent	July	5	13	Kinsella of Chem Systems N Prices N Sept 6-33 N	Sept	13	53
and Brisco plan to keep growing in chemical (P)	Sept	6	53	NICB's 17th annual marketing conference: Marketers to the fore	Nov	5	19	Methyl Chloride			
M&T Chemical' new president H.E. Hirsch- land: 'Nice guy' is winner at M&T	Aug		113	Returnable plastic milk bottles - "best buy" for dairymen?	Aug	9	29	Ancon doubling capacity at Lake Charles	Oct	18	34
Managing new engineers - Six phophecies	-	29		SIC gets a face-lifting	July	5	29	Prices N Nov 19-75 N Methyl Chloroform — New processes, new	Nov	26	120
for the '70s		12	-	run up chemical makers' costs	July	19	41	antismog rules, give new life to old solvent (tables)	Aun	0	30
prosperity in chemicals Monsanto's Ernest Robson: Traveling man	Nov	12	56	U.S. exporters of chemicals holding their own in W. Europe and L. America, but				Methyl Glucoside - CPC International	Aug	,	-
switches from selling to buying Monsanto's Textiles Div. realigns its	Dec	10	80	being outsold by competitors in Asia and Africa: top 10 in chemical trading (table)	Nov	5	45	plant at Argo, III R	Dec	24	26
structure to put more emphasis on market orientation	Dec	17	26	U.S. latest input/output data show sharply changing trends in process industries'				Mexico Authorities deny receiving a request for			
Nalco reorganizes its corporate structure. % of top-management promotions in U.S.	Dec		26	major markets (tables)	Dec	3	39	rulings on the proposed sales of Gulf Resources & Chemical's Mexican sulfur			
industry went to chemical executives in first-half '69	Oct	29	35					subsidiaries to Inversiones Azufreras BASF investment boosts N	Nov	26	27
Ocean Systems' new president and chair-		.,	"	Materials Handling Belting, called Tufbestos: impregnating				Celanese, Nylon de Mexico and DSM joint	Dec	10	28
man, Roy E. Sweet: Ex-singer now ponders ocean floor	July	26	61	woven asbestos with Teflon to form a conveyor belt	Aug	16	108	venture to build first nylon feedstock plant	Aug	2	20
Occidental Petroleum's Tom Willers: He's gone west to coordinate a \$2-billion	_			conveyor belt Brown & Root's "Mr. Clyde", erection pole and gallows head assembly, has				Guanos goes south: builds fertilizer unit in Guatemala.	Aug	30	32
giant Ott Chemical's James R. Eiszner	Dec	: 17	86	the greatest lifting capacity now avail- able in the construction industry	Oct	11	73	Gulf Resources & Chemical's Allen charges Mexican government "may be			
new chairman — A man who'll take a chance	July	y 12	38	Conveyor system - World's largest single-	oct	11	13	thinking of confiscation" of sulfur properties	Man	30	45
Petro-Tex's president, James Lockwood: Tough taskmaster on top	Jul			belt conveyor system will be tied into TVA project	Dec	10	68	GRC's efforts to sell Mexican sulfur oper-		19	43
Professional pitfalls - letter Signal's Lee Daly: Charting a new course	Jul			industry letter	Aug	16	5	ations are stymied	Oct	29	14 55
in plastics	Oct	t 18	109	Marconaflo technique in moving iron ore	Dec	17	79	Petrochemical buildup Proposal to nationalize chemical industry	Sep		38
rebuffed but still wooing	Sep	pt 13	16	from Peru to the U.S N Phosphate plants cut costs with new	Aug	2	39	made by country's chemical workers union	Nov	24	36
Sun Oil's top changes: R. Dunlop moves u to chairman; H.R. Sharbaugh, new	-			materials-handling methods	Nov	12	34	Michigan State University - Ammonia in the diet of cows can cut farmers' cost N	A	-	34
president N UC's Ferroalloys Div. new president, Fred Kroft, Jr.: The club champ takes	De	c 24	17	McGinty, Jerome — Millmaster's new president: From depression to prosperity	. Bire	. 34		Michigan Technological University -	Aug	, ,	34
Fred Kroft, Jr.: The club champ takes over a new division	No	w 26	154	in chemicals	Au			Economic assessment of the manganese at the botton of Lake Michigan being			
								undertaken N	Oct	4	48

Midwest Research Institute — Darnay, Arsen summarizes report "The role of packaging in solid waste management 1966 to 1976" (charts & table)	Oct	4	41	FDA asks the NAS to review all scientific data on MSG's effect on nerve cells . N IMC's Accent may be banned N Nutrition conference clashes over 'GRAS'	Oct	11 19	33 34	National Industrial Conference Board — Annual (17th) marketing conference: Marketers to the fore	Nov	5	19
Militery Applications Chemical-biological weapons R&D virtually halted	July	12	14	charges N Prices N Monosodium Methyl Arsonate — Prices N Morocco — King Hassan renews his nation's	Oct Sept	10 4 13	19 37 53	National Institutes of Health Approving no new grants until its fiscal '70 budget is settled by CongressN	Nov.	19	48
DOD's contract awards for munitions and weapons drops	Sept	6	23	claim to Spanish Sahara phosphate deposits	July	12	33	Excessive plant noises now cost U.S. industry about \$4 billion/year in lost time and workman's compensation	•		
warfare agents on America's foreign and defense policies will come under	luke		22	Motors	Dec	17	79	payments	Dec	3	17
NAS will study disposal of M55 rockets and M34 cluster bombs N	July	5	23	A-c motors	Nov	5	100 41	finers face challenge of designing a fuel for future autos	Sept	27	53
UN's report advocates a complete ban on chemical and biological weapons	July	12	25	High-torque motors	Nov Nov	12 19	100	National Plant Food Institute – Proposed uniting of three fertilizer industry			
Military Applications see also Chemical Worfere, Defoliation Chemicals, Munitions, U.S. Army, U.S. Novy	July	12	••	Myers, Robert — A musician aims to give research a new beat	Nov Dec	19 10	128	associations	Oct	18	34
Miller, Arnold - Whittaker's Materials Subgroup general manager: Fervor for				N				ed Europeans as the largest group of professionals now entering the U.S. (table)	July	5	45
R&D mustn't sway my judgment on P&L	Dec	24	84					National Waterways Conference, Inc. — User tax for waterways?	Oct	10	43
Minerals Exploration				Napalm — Dow loses out on napalm — will bid again	Nov	26	30	Natural Gas	oct	10	02
NASA's Earth Resources Research Data Facility will make data on earth resources collected by satellites available to the				Naphthe Argentina will offer its chemical indus-			,,,	Algerian LNG due El Paso and Sonatrach sign contracts for importation of Algerian LNG into	July	5	29
Nickel shortage forces up prices, spurs	Aug	2	19	tries cheap feedstock gas	Aug	9	25	U.S. over a 25-year period N Area rate pricing: ruling that could extend	Oct	18	26
look for new sources (tables) Ocean mining see Underwoter Mining	Nov	5	31	Dow plans naphtha cracker at Stade or	Aug	2	28	the area concept well beyond the Permian Basin and southern Louisiana N	Oct	4	38
Submarine tanker may haul oil and sulfur out of Canadian Arctic Mining — High-strength plastics have	Oct	29	96	Terneuzen	Oct Oct	29 29	26 52	Argentina will offer its chemical indus- tries cheap feedstock gas	Aug	9	25
enormous potential for use in mining and tunnel construction	Dec	17	31	naphtha suppliers' efforts to raise prices	Sept	6	34	Europe	Dec	10	22
Mining see also Underwater Mining Minting of silver dollars and half-dollars;	566	.,	,,	ty studied	Sept	27	24	the cost of constructing pipeline to deliver Bolivian gas to Argentina's Gas			
end is in sight; Nixon Administration asks for approval of legislation to				Naphthalene — Output for first six months of '69 N	Aug	30	29	del EstadoN Argentina will assume guarantees to permit resumption of work on pipe-	July	12	25
mint cupro-nickel coins N	Oct	11	33	National Academy of Sciences Committee to study disposal of M55 rockets and M34 cluster bombs N				line	Dec	24	39
Lodige mixers for Squibb's new plant Slurry mixer	Nov	19 19	107 100	Hazardous materials transportation	July		25	natural gas for domestic consumption for			
Molding	Nov	17	100	Poison gas disposal will be according to	Sept	27	14	10 years N Bolivian Gulf Oil may lose some of its	Sept	13	24
Crown Zellerbach plans injection-molding plants in Glassboro, N.J., and Calif. N	Aug	2	9	NAS recommendationsN Re-evaluation of the federal helium con-	July	17	25 31	Borneo: world's largest liquefaction	Oct.	18	65 47
Prince of Wales crowned with aid of 150-year-old chemical process	Oct	11	65	servation program is recommended N Report — "Resources and Man — a Study and Recomendations", recommends	Dec	11	31	plant will use U.S. technology N Canada – LNG plant for BC Hydro R Chemcell will invest in oil and gas	Dec	3	24
Rohm & Haas' acrylic molding powder plant at Bristol, Pa., expansion N	Aug	2	10	the adoption of measures to conserve fossil fuels for chemical uses and es-				Con Gas starts up a large cryogenic	Oct	29	49
Sports market — snowmobile recipe Molecular Sieves — Industrial catalysts and	Dec	24	68	sential liquid fuels	Nov	26	28	plant to separate natural gas liquids at Hastings, W. Va	Nov	12	50
molecular sieves for controlled oxygen atmosphere for food preservation Molybdenum — Amax and Penarroya joint	July	26	28	MASA Earth Resources Research Data Facility will make data on earth resources col-				Demand for natural gas will begin to outrun supplies in a "few years", says FPC report	Oct	11	33
study for exploitation of the Yorke-Hardy molybdenum deposits in British				lected by satellites available to the publicN	Aug	2	19	natural gas- will undergo government			
Columbia R	Aug	30	16	Nuclear power may replace chemical power in space exploration rocketsN Space exploration will need practical way of regenerating food from metabolic	Aug	16	47	tests N El Paso says "world's largest" LNG project will cost almost \$1 billion, is	Dec	17	69
BASF complex in Beaufort County, S.C Butyl styrene C	Oct Nov	26	143	Tripropellant systems may be feasible for	Sept	20	115	problems	Oct Dec	18 17	26 32
Dow boosting styrene monomer capacity in Australia N	Nov	19	114	rocket engine for new space shuttle vehicleN	Sept	27	23	contains little ethane or propane,			
Epoxy monomer	Dec		79	National Agricultural Chemical Assn. – Organizes a "DDT Task Force" to				therefore is not suitable for ethylene production	Oct	29	52
Martorell, Spain	Aug	9	24	fight attempts to have DDT banned National Assn. of Metal Finishers — Metal finishers are feeling the brunt of cadmium	July	12	31	Great Britain: gas from biggest onshore field will be tied into the national grid N Houston Natural Gas weighs expansion of	Aug	2	40
caustic soda project at Puertollano, Spain N	Aug	9	24	and nickel shortages	Aug	23	59	IGT fleet testing of vehicles fueled by	Oct	18	32
Lubrizol will build diacetone acrylamide plant at Bayport, Tex R Methyl methacrylate monomer plant at	Sept	13	18	G-P's Wilson discusses methanol prices and capacity at meetingN	Oct	18	58	natural gas	Dec	17	23
Teesside, England, planned R Monsanto Iberica expanding VCM capacity	Oct	30		National Assn. of Wholesalers — Files suit against plan under which the feder- al government would buy commodities				fully operational	Aug	23	59
Prices N Radiation-induced polymerization of vinyl acetate homopolymers and copolymers	Oct	29	105	for states and localities – cutting off distributors	Aug	23	27	proposed	- July Nov	12	24 28
move into the pilot plant N	Dec	10	67	National Bureau of Standards Astin, Dr. Allen will remain as "consul-				(charts)	Sept July	20 19	37 17
Rohm & Haas plans acrylate monomers plant at Sea Sands, Teeside, England Shell's VCM plant at Houston, Tex., will	July		20	tant-director emeritus" N Combination of gelled hydrogen and slush	Sept	27	23	processing unit near Lowell, MassR	Oct	18	34
Solvay plans VCM unit at Martorell,	Oct	18	26	hydrogen as a rocket fuel N Researchers outline the characteristics	Nov	12	43	Northern Natural Gas seeking FPC okay to build pipeline facilities to import	Ont	11	20
Styrene monomer prices N	Aug Sept		33	and propose a structure for "anomalous" water N	July	12	43	Canadian gas Offshore Texas and Louisiana lease sales will resume under stricter regula-	Oct	11	28
2-sulfoethyl methacrylate (SEM), new monomer from Dow	July	12	44	National Conference on Packaging Wastes— Packaging: the problem of disposal				tions	Sept	6	23
VAM: National Distillers claims Celanese infringed its VAM patent	Nov	19	39	(charts & table)	Oct	4	41	gas and oil in Rocky Mountain areaN Pipeline from Reeves County, Tex., to Texas' Gulf Coast area will be built by	Aug	30	10
VCM: Solvay continues to boost its capacity in Europe N VCM and PVC plant at Porvoo, Finland R	Nov Sept			ence — No evidence of critical ineffici- ency in the nation's scientific and tech- nical communications	July	5	45	Texas' Gulf Coast area will be built by Houston Natural Gas	Dec	3	9
VCM capacity expansion considered by KZO N VCM plant, probably in Belgium's Limburg	July		33	National Executives Conference on Water Pollution Abatement — In war on pollu-	,	-		Canada and the North Slope, Alaska, to the U.S	July	5	32
province planned	July	y 12	33	tion, who'll lead way, industry or U.S.?.	Nov	5	41	(charts & tables)	Oct	29	59
Israeli petrochemical complex	Oct	4	23	National Fertilizer Solutions Assn. Liquid fertilizer marketing cost studyN	Oct	4	38	Russian-German deal for natural gas N Russians negotiate gas-pipeline deals	Sept	20	48
Monosodium Glutamate Ban on sweetener sours flavor outlook too				Proposed uniting of three fertilizer in- dustry associations	Oct	18	34	in Europe and Japan Sea Robin Pipeline's financing set for project that will bring in natural gas	Oct	29	50
(table)	Nov Dec		16	National Foreign Trade Convention – Stans favors U.S. adoption of a value- added tax; Percy calling for 'Nixon				from beneath the outer continental shelf of the Gulf of Mexico off the Louisiana			
Controversy of MSG use in baby foods simmering	Aug	30	19	Round' of negotiations to lessen impact of imports	Nov	26	26	cost	Aug	23	14
				(N Newslatter B Boundary C Countries							

								2			
Shell Canada plans gas processing plant at Pincher Creek, Alta,N	Sept	27	24	Industrial gases' outlook: new processing, . pollution-control uses bolster outlook (chart)	Cant	47	39	Oxidation Black-liquor oxidation as way for pulpers			
Shell Canada's gas processing plant to be built near Cremona, AltaN Wholesale prices are upN	July Nov.	19	17 27	IVP contract for construction of the "largest nitrogen fertilizer plant in the	Sept	27	34	to reduce air pollution discussed at TAPPI meeting	Sept Nov	27 19	52 100
	HOV.	44	Li	world"	Sept.	13	15		NOV	17	100
Acetone cyanohydrin plant	Dec	17	40	Nitroparaffin — Commercial Solvents' plant at Sterlington, La., doubles capacityR	Nov	12	22	Oxygen Air Products's air-separation plant at El Segundo, Calif., explosion and fire in a			
July 19-45, N. July 26-27, Aug 30-31 R	Sept	20	43	Acoustic windowC	Dec	24	54	Air Products' industrial gas plant at	Dec	17	24
Amsterdam court orders Centrale Suiker Maatschappij and Suikerunie U.A. to stop advertising "unfounded destruc-				Acoustic window		-	-	Cleveland expansion	Sept	13	18
stop advertising "unfounded, destruc- tive criticism" of cyclamates N Arco Chemical and Halcon International	Aug	30	39	time and workman's compensation pay-	Dan		17	Geismar, La	Oct	11	28
propylene oxide project near Rotterriam.	Aug	16	56 36	ments, say NIH	Dec	3	17	capacity at Burns Harbor, Ind	July	5	10
Plant will be Europe's largestR Cyanamid specialty chemicals plant at	Oct.	11		Nylon Air bags may join seat belts as major				Chemetron's National Cylinder Gas Div. starts producing oxygen, nitrogen and			
Rotterdam	Oct	11	28	auto safety devices N	Aug	30	40	argon at Mt. Vernon, Ind., plant R Commercial nascent oxygen? — Humphreys'	Aug	23	22
Terneuzen to be doubled R Europe's chemical giants set for home,	Nov	12	30	Allied expanding nylon staple fiber capacity at Columbia, S.C	Oct	18	25	electrically driven bulk heater that operates continuously	Oct	11	56
overseas investment drive - report (charts & tables)	Dec	10	44	Allied's fibers that have silken quali- ties: a nylon-polyester bicomponent fiber called Source, and a new nylon							
European governments are focusing more	Dec	10	**	dubbed Caprolan Touch	Sept	6	37	preservation	July	26	28
attention on acquisitions and mergers that may be harmful to free competition N	Dec	24	32	Aquitaine Chemicals formed to market nylon-11 and make nylon-11 and-12 R	Sept	27	18	pollution-control uses bolster outlook (chart)	Sept	27	39
Gas centrifuge to enrich uranium is moving forward	Nov	26	133	Caprolactam see also Caprolectem Celanese Mexicana, Nylon de Mexico and				Liquid oxygen used by Apollo 11N	July	26	51
ICI will boost PE capacity in Europort R KZO considering expansion of VCM	Aug	16	56	DSM joint venture to build Mexico's first nylon feedstock plantN	Aug	2	20	D			
capacity	July	12	33	Du Pont's Nomex, high-temperature resistant nylon can be made into work	rug			F			
northern Holland N Rotterdamse Polyolefinen's polypro-	Aug	9	24	clothes	Oct	29	89	Pockoging			
pylene capacity increase at PernisR	Dec	24	39	Du Pont's Qiana quickens its pace Europe's synthetic fiber outlook	Sept	6	37	Aerosol packaging materials pace sales pickup	Oct	29	32
Shell and DSM plan refinery at Geleen N Shell drilling for magnesium and potas-	Sept	27	24	Glass-reinforced nylon pricesN	Oct	18	69 30	Dow laminated and coated packaging materials prices	Aug	9	27
sium in north of Groningen province N Shell expanding petrochemical	Oct	29	49	ICI's nylon and polyester plant at Offen- bach, Germany, expansion N	Oct	4	20	FTC fair packaging and labeling regula- tions: FTC yielded to pressure by an			-
capacities	Oct	18	34	Indian plant	Sept	6	24	industry-backed lawsuit, now excludes			
Pernis N Neumann, George C. – Camp Laboratories'	July	12	33	and flotation products being test mar-		20	40	industry-backed lawsuit, now excludes a number of items from FPLA coverage as not being "consumer commodities" N	Aug	30	19
president seeking big opportunity in	F 4	20	140	Nylon-4 at an advanced research stageN	Oct	30 29	120	FDA rules see Food & Drug Administra- tion			
New Caledonia - Amax project with Soc.	Sept	20	145	Nylon-9: SRI nylon-9 from soybean oil study project	July	5	43	Labeling laws see Lows Poison Prevention Packaging Act			
Miniere et Metallurgique de Penarroya to develop nickel deposits	Aug	30	16	study project	Nov	12 16	29 56	extension to cover products not used in the home, but stored on the premises,			
New Jersey - Seeks 50% hike in world trade				Phrix Werke ups output		-	**	is sought by the Nixon Administration. N	Oct	11	33
in next decade	Dec	24	24	reservoir	Nov	26	126	Refuse causing a waste-disposal crisis (charts & table)	Oct	40	41
soda plant is back in operation follow- ing war between Honduras and El				slimmer profits; trend to greater involve-			***	Squibb's new plant introduces new manu- facturing, packaging, warehousing,			
SalvadorN	Aug	23	28	ment in the textile industry (tables) Synthetic turf: legal scrimmage involves Monsanto and American Biltrite	Nov	26		Swedish Acadamy of Engineering	Nov	19	107
Hickel				Monsanto and American Biltrite	Aug	30	36	Sciences says more plastics in packag- ing poses no real threat to the			
Amax project with Soc. Miniere et Metallurgique de Penarroya to develop				_				environmentN Paint Industries Show stars oils and	Oct	18	71
nickel deposits in New CaledoniaR Amax to purchase Cuban American	Aug	30	16	0				resins	Nov	19	43
Nickel's Port Nickel refinery at Braithwaite, La	Aug	30	16					Paints			
Consumers will be limited to quantities needed to fill defense orders; may not				Ocean exploration and mining see				Chemical specialties and adhesives plant near Chicago planned	Nov	19	44
replace inventories	Aug	9	21	Underwater Mining				Defoaming agents C Sept 20-103,C Fireproof resin is chief binding agent	Sept July	20	104 27
Exports: issuance of export licenses for nickel discontinuedN	July	26	25	Oceanography Fluor Ocean Services' new barges to				High-gloss paint emulsionC	Sept	20	104
Mechanical alloying combines two well- known techniques for strengthening				develop more efficient construction equipment for use in the Gulf of				High-temperature paint	Nov	26	143
metals – dispersion hardening and precipitation hardening	Nov	12	50	MexicoN Submarine tanker may haul oil and sulfur	Aug	9	34	Paint Industries Show features oils and resins	Nov	19	43
Metal finishers are feeling the brunt of cadmium and nickel shortagesN	Aug	23	59	out of Canadian Arctic	Oct	29	96	Paint-leveling agent	Dec	24	54
Ontario mines strike may affect nickel			30	Odor Control - Public wrath over plant odors spurs use of "neutralizing"				grinding surface will be tested by	Oct	29	40
Prices	July	19	36	aromas (table)	Aug	16	94	NIDR	Oct	27	40
Processes to stretch the nickel: (1) new bright metal-plating processes that can				Oils & Fats				mers move into the pilot plant N	Dec	10	67
halve nickel consumption in decorative nickel-plating; (2) chemical regenera-				Drew Chemical's Boonton, N.J. plant: Chemical regeneration of the nickel				Reichhold (Austria) agreement to supply Russia with industrial paint know-how	Aug	9	26
tion of the nickel catalysts used to hydrogenate fats and oil	Dec	10	63	catalysts used to hydrogenate fats and		20		Palladium - Prices N Aug 9-28,N	Nov	12	38
Shortage appears to be approaching a crisisN	Oct	11	33	Nylon-9 from soybean oil study project N	July	10	43	Poper Crown Zellerbach obtains rights to a			
Shortage forces up prices, spurs look for new sources (tables)	Nov	5	31	OIA amended regulations say that petro- leum-derived C ₀ to C ₁₀ paraffins or mono- olefins are to be treated like ethylene . N				Japanese "polyolefin paper" processN Economy-grade tape	Dec	10	67 32
Supply outlook grows worse N	Aug	30	29	Tung oil pricesN	Sept Sept	13	34	International Paper's Texas expansion		-	
Supplies won't begin to ease for another four months N	Nov	26	119	Olefins				N.Y. City may use plastic and paper	Sept	20	33
Whitehead Metals' plant has nickel stolen	Nov	19	44	Cie, Francaise des Produits Chimiques- Shell's wax cracker olefin capacity at				bags throughout the city for garbage disposalN	Nov	5	36
				Berre will be increasedN	Aug	2	20	Paper product dyesC TAPPI 24th Engineering Conference:	July	26	57
Mitric Acid Du Pont's plant at Repauno Works near				Cyclic olefins	Aug	2	35	Papermakers try new technology in battle to trim operating costs	Cant	27	52
Gibbstown, N.J. N Sept 20-33, R Non-noble metal catalyst for nitric	Sept	27	18	Tex., will cost more than \$10 million N Naphtachimie expansion at Lavera	Oct	18	26	Weyerhaeuser expansion program N	Dec	3	52
acid N		13	68	complex near Marseilles	Aug	16	56	Para-aminobenzoic acid employed in an ethyl alcohol solution: new way to use			
Nitroaniline - Halogen nitroanilines C	'Aug	16	110	Joliet, III., chemical operation N	Aug	23	13	an old compound to protect skin against sun	July	5	53
Nitrogen Air Products' industrial gas plant at				Optical Brighteners - The world of synthetic detergents - report Sal J.				Paraffins			
Cleveland expansion	Sept	13	18	Silvis (charts, tables, flowsheets) Part 1				Cie. Française des Produits Chimiques- Shell will build urea adduct plant at			
Geismar, La	Oct	11	28	Part 7	Sept	20 18	67 79	Berre, near Marseilles, to produce			
capacity at Burns Harbor, Ind N	July	5	10	letters Oct 18-8. Organic Chemicals see also specific	Dec	10	5	linear paraffins; wax cracker olefin capacity at Berre will be increased N	Aug	2	20
Air Products Ltd. plans liquid nitrogen	Dec	3	23	chemical Organics - Production: Tariff Commission				Marusen Oil and Kanegafuchi joint venture to produce normal paraffins in			
niant at Bracknell								Japan plannedR	July	5	34
plant at Bracknell	Dec.	. 17	51	data for the first four months of '69	1	3.0	20	Para-yvelene Phone-Poulenc plane at			
plant at Bracknell R Brighter future for fertilizer? Sales figures show increase. Chemetron's National Cylinder Gas Div. starts producing oxygen, nitrogen and				(table) N Organophosphines C	July Aug	12 16	30 110	Para-xyelene - Rhone-Poulenc plans at Gonfreville, France	Dec	3	23
plant at Bracknell R Brighter future for fertilizer? Sales figures show increase. Chemetron's National Cylinder Gas Div. starts producing oxygen, nitrogen and			51	Organophosphines				Gonfreville, France	Dec	3	23
plant at Bracknell R Brighter future for fertilizer? Sales figures show increase		23		(table) N Organophosphines C				Gonfreville, FranceR	Dec		52

Carter-Wallace's patent on meprobamate, tranquilizing agent marketed as Mil-				Shell Chemical's expansion plans N Shell expanding Netherlands petro-	Dec	3	20	Teijin, Japan's biggest polyester pro- ducer, seeks oil in LibyaR	A	22	25
town, upheld N	Oct	11	22	chemical capacities	Oct	18	34	Trans Alaska Pipeline way cleared N	Aug Dec	24	31
Computer programs may not be patentable per se, but the operation of computers				Sicily: SARP plans \$1-billion chemical and petrochemical complex	Nov	12	28	UOP joins Japan Gasoline in forming a new group that will offer licenses in the			
that are controlled by the programs may be — Prater-Wei case	Aug	23	73	Singapore may get petrochemical plantN Sun Oil's Dunlop: Petrochemical and		27	24	Far EastN	Oct	4	48
Computer programs may be patentable		-		plant food revenues will be somewhat				Petroleum Assn. of Japan — Chemical makers are resisting naphtha suppliers'			
under a new stand taken by U.S. Patent OfficeN	Oct	18	40	higher in '69	Nov	12	22	efforts to raise pricesN	Sept	6	34
Drugs: Justice sues Ciba, CPC Inter- national over drug patents, licensing				Thailand: Mitsui group wants to partici-	Aug	23	35	Pharmaceutical Manufacturers Assn.			
deals	July	19	23	pate in complex	Sept	27	27	Cyclamates – Can PMA get FDA to drop ban?	Dec	17	24
Goodyear charges Diamond Shamrock and Mobay infringing its urethane patents N	Oct	18	71	venture complexN	Aug	9	24	Drug makers want FDA's regulatory powers streamlined	Ont	4	14
Montedison polypropylene patent suits				UC's Penuelas, Puerto Rico project expansion (table) N July 5-10, N	July	12	13	Hails FDA's recall of nearly 40 million	Oct	4	16
alleging infringement brought against Phillips Petroleum, Diamond and				Venezuela buildup accelerating again	Sept	13	15	oxytetracycline capsules	Dec	17	31
Eastman Kodak	July	5	43	Petroleum				regulation enlarging its authority to ban			-
infringed its VAM patent	Nov	19	39	ACLU wants to stop oil companies from drilling new wells in California's				a drugN	Nov	12	27
Patent bill: reformers lose	Aug	16	38	Santa Barbara Channel N	Nov	19	34	Phenol			
into effectN	Dec	24	31	U.S. Supreme Court upholds right to drill for oil	Dec	3	46	Dow will build bisphenol unit at its			
Stretch yarns patent: Leesona asks court to decide relative rights of company and				Alaska's sales of lands in the oil-rich North Slope area high N		20	34	Texas Div. plant in Freeport R European production	Aug Oct	30 18	16
64 licensees	Oct	29	89	Amerada Hess to increase capacity of	Sept			Monsanto's phenol expansion at Chocolate,			
Monsanto and American Biltrite	Aug	30	36	St. Croix, Virgin Islands, refineryR API fights changes in oil rules	Sept	27 19	18 43	Tex., complex	Aug Aug	16 30	33 30
Tin catalysts for making urethanes pat- ent dispute	Nov	12	44	Atlantic Richfield plans to build a re-				Phenol-from-cumene — Coproduct acetone: asset or Achilles heel in top phenol			
U.S. district court in N.Y. bars Uniroyal				finery at Machiasport, Me Bahamas Oil Refining's Freeport, Grand	July	12	20	process? (table)	Sept	20	133
from enforcing its maleic hydrazide patent against AnsulN	Nov	12	13	Bahamas Island, refinery to be complet-	Aug	2	28	- letter	Nov	26	12 16
U.S. Supreme Court rules there is no patent, if there is no synergism from using sev-				ed next spring	Aug	2	20	Philippines - Pacific's CPI prospects:	July	,	10
eral known elementsN	Dec	17	69	of protein from petroleum; two new plants at Grangemouth, Scotland and				proposed power/chemicals complex could spur trade in Far East (table)	Sept	4	41
Patexpo '69 — a lot of unused but potential- ly significant technology will be exhibit-				Lavera, France	Dec	17	40	Phillips, A. (Alvin) Lloyd - American	Schr	0	41
ed for sale or license at a new kind of				Chemcell will invest in oil and gas	Oct	18	33	Aniline Products' new president and director: Managing by the Golden Rule	Aug	30	45
show this fall	Aug	2	40	business	Oct	29	49	Phosgene - Shipping from Army Arsenal	Aug	.30	43
Pentaerythrital	Sept	6	33	other industrial plantsN	Aug	30	10	halted by U.S. DOT	Sept	20	38
Capacity boosts	Sept	0		Depletion allowances; House and Senate versions (table)	Nov	12	20	Phosphates			
Pa. plant N Hercules upping capacity N July 12-29, N Pan American Chemical plans plant N	Aug	2	27 27	FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	ARCO dedicates Fort Madison, la., ferti-			
Pan American Chemical plans plant N				Foreign trade zones — Proposal to repeal	Dec	11	23	Ban on detergent phosphates opposed by	Oct	11	27
July 12-29, N Aug 2-27, N Prices N Sept 6-33, N	Nov Sept	13	13 54	the Foreign Trade Zones Act has come under attack from Rep. CellerN	July	26	25	government and industry	Dec	24	23
Supply and demand is snug, and only				Fueling cars of the future – oil refiners				Brighter future for fertilizer? Sales figures show increase	Dec	17	51
imports are preventing a serious short- age; capacities, end-usesN	July	12	29	face challenge	Sept July	27 26	53 14	Chemicals prices	Dec	10	54
Percarbonate – Pennwalt's Geneseo, N.Y. percarbonate initiators and specialty				Houston oil men organize "to dis- seminate the facts" about the oil, gas and petrochemical industries				burdens fertilizer markets (chart)	Aug	16	91
chloroformates plant R	Sept	20	43	and petrochemical industries	Dec	24	25	Fertilizer prices weaken	Sept Dec	27	44
Perfluorosulfonic Acid — Thermoplastic combining fluorocarbon and ion ex-				Hudson's Bay Oil & Gas agreement with Great Plain Development of Canada for				Morocco's King Hassan renews his na- tion's claim to Spanish Sahara deposits N			-
change properties called XRN	Sept		124	Great Plain Development of Canada for 50% interest in 3.7 million acres of oil	tulu	30	10	New techniques to cut costs of bulk-	July	12	33
Perlite - Japanese joint venture in Korea R	Nov	19	120	leases in Canada's Arctic IslandsN	July	19	. 18	Occidental Petroleum's Chemical Div.	Nov	12	34
Personal Products - Personal hygiene spray market	Dec	17	81	Iran takes a petrochemical tack (map) Justice Dept. wants a consent decree	Sept	20	139	will build defluorinated phosphate plant		**	
Peru - Government declares that it will			10	barring Witco from allocating sales				in White Springs, FlaA PricesN	Aug	23	22 58
nationalize all major landholdings Pesticides see Insecticides	July	5	15	territories and fixing prices of its Kendall-brand petroleum productsN	Dec	17	18	Spain: phosphatic fertilizer project for Huelva possible		12	33
resticides see insecticides				Justice Dept. will look into joint bidding by major oil companies, presumably in-				Water quality degraded by detergent	July		
Petrochemicals				cluding those on Alaskan oil leases	Oct	18	34	phosphates, how much? N Wisconsin bill would ban "sale or use of	Oct	29	106
Amoco's Geel, Belgium, plants to produce PP, polystyrene and isophthalic acid	Nov	12	30	Leasing: new rules for oil, gas and sulfur leasing on the outer contiental shelf				detergents containing phosphorus" N	Sept	6	33
Argentina: Dow's planned petrochemical complex at Bahia Blanca protested by				proposed N	July	5	24	Phosphate Ester – Plasticizer pricesN	Nov	12	38
producers N	July	5	36	LPG feedstock shortage is coming (charts)	Sept	20	37	Phosphine ligandsC	Nov	26	143
Venture delayed	Aug Sept	13	36 25 24	LPG from Australia for Japanese firms Libyan Revolutionary Council is quietly	Oct	29	50	Phosphoric Acid			
Dow confirms proposal to build complex under terms of the country's new				advising foreign oil companies it wants				ARCO dedicates Fort Madison, la., ferti-	0-4	**	07
"petrochemical promotions" law (table)	Sept		29	higher price tags on oilN Netherlands refinery planned by Shell	Sept	13	10	lizer complex	Oct	11	27
Gets government approvalN Argentine petrochemical users are re-	Dec	10	28	and DSMN	Sept	27	24	Phosphate plants cut costs with new materials-handling methods	Nov	12	34
sisting Dow's sales efforts	Dec	24	39	Occidental Petroleum's Machiasport, Me., refinery: Hammer promises to import				Superphosphoric acid plant near Liege,			
BASF petrochemical feedstock in Europe buildup	Oct	18	69	Odessa. Tex., to be fount of learning or	Aug	9	16	using Oxy-Nordac process, planned N Phosphorus – Electric Reduction resumes	Sept	6	24
BASF plans Rhine site for petrochemical intermediates units	Aug	16	57	Odessa, Tex., to be fount of learning or fount of oil?	Nov	5	21	output at Newfoundland plant July 12-	July	19	51
Benzene see Benzene			-	will resume under stricter regulations . N	Sept	6	23 27	37,N Photography – Staley's prepress color-	July	17	21
Bolivia plans petrochemical buildup in wake of Gulf takeover	Dec	3	23	Oil depletion allowances N July 26-25, . N OIA: Ralph Snyder, Jr., author of a plan to	Dec	10	27	proofing system N July 12-44N	Aug	9	33
Calvo Sotelo expansion in Puertollano N Fatty acids see Fotty Acids	Sept	20	48	OIA: Ralph Snyder, Jr., author of a plan to establish a national "oil bank" promot- ed to Deputy Administrator N	Aun	20	19	Phthalates			
Houston oil men organize "to disseminate				OIA amended regulations say that pet-	Aug	30	19	Belgium phthalic anhydride and			
Houston oil men organize "to disseminate the facts" about the oil, gas and petro- chemical industries	Dec	24	25	roleum-derived Co to Co paraffins or mono-olefins are to be treated like				phthalates joint venture Monsanto expands capacity at Texas	Aug	16	57
India: Koyali complex	Oct	11	36 139	ethyleneN	Sept	13	9	City plantN	Aug	9	27
- letters	Sept Oct	11	5	Oil quotas see Imports Oil sands see Oil Sonds				Phthalate Ester — Monsanto plans plasticizer plant at Texas City, Tex N	Aug	16	33
Israeli petrochemical complex near Tel Aviv	Oct	4	23	Oil shale see Shale Oil Oil spills see Water Pollution				plant at reads only, real trition and	nug	40	"
Japan builds a \$500-million project — its biggest	July	5		Olefins see Olefins				Phthalic Anhydride			
Japan's producers plan new plants N	Dec	3	20	Pan American Petroleum stepping up off- shore Louisiana activity	July	12	21	BASF and Heinrich Koppers form new team in technology	Nov	12	43
Libyan petrochemical buildupN Mexican buildupN	Nov Sept	12	34 20 28 38 14	shore Louisiana activity	Aug	30	10	team in technology N BASF's South Kearny, N.J., plant	July	12	13
Mitsui will set up a U.S. subsidiary Mobil expands Naples, Italy plant R	July	12	14	Plant sites '69 report. J.M. Winton (charts				capacity upped	Aug	9	24 .
Monsanto Iberica complex in Tarragona	Aug	30	39 32	& tables)	Oct	29	59	Belgium phthalic anhydride and phtha- lates joint venture	Aug	16	57
Montecatini-Edison expands chemical operations in southern Italy	Oct	4	23	putting "petro-protein" on the table (table)	A		43	lates joint venture	Aug	2	27
Oil import quotas see Imports	oct	,	23	- letter	Aug Sept	20	41 16	will use BASF technology N	July	19	18
PetroChem oil plan: equity for all? New chemical industry group proposes oil				Puerto Rico's Penuelas refining complex expansionN		4	9	Output for first six months of '69 N Prices N	Aug	30	30 27
chemical industry group proposes oil imports compromise	Nov	26	28	Separation for high-boiling crude oil	30.			, .,	Aug	-	-1
to 'RD (table)	July	5	14	fractions test: gel permeation chromato- graph technique	Oct	4	47	Pigments			
Scotland: Rezoning approval will permit Grampian Chemical to erect complex at Invergordon, Moray FirthN				Submarine tanker may hauf oil and sulfur		20	01	BASF complex in Beaufort County, S.C PPG is out with fourth grade of titanium	Oct	11	27
Invergordon, Moray FirthN	Aug	9	24	out of Canadian Arctic	Oct	29	96	dioxide pigmentN	Nov	19	76

Piping Bolivia: World Bank loan will cover half				Bayer negotiating with Russians for technical arrangement in the plastic		10	***	India will boost polyester fiber capacity N Monsanto's polyester staple fiber called	Sept	6	24
the cost of constructing pipeline to deliver Bolivian gas to Argentina's				field N Bayer plastics capacity expansion	Nov	19	113 25	WD-2 N Phrix Werke ups output R	Sept Aug	27	57
Gas del Estado	July	12	25	Bayer plastics capacity expansion Coca-Cola evaluating plastic bottles made from a material named LOPAC	Nov	12	19	Rayon - Polyester battle for tire market: Ford abandons the PEG-BB tire N	Oct	11	41
permit resumption of work on pipe- line	Dec	24	39	Construction: plastic wrapper for roads allows builders to substitute native			•,	Synthetic fibers outlook: Slower growth, slimmer profits; trend to greater involve-	OCI	**	41
Deep-sea disposal pipeline: submarine voyage buoys hopes	Sept	27	30	clay soils for granular baseN Foam see Feems	July	12	25	ment in the textile industry (tables)	Nov Sept	26	123
DOT sets new guidelines for hazardous materials in pipelines	Oct	18		High-strength plastics have enormous potential for use in mining and tunnel				Teijin, Japan's biggest polyester pro- ducer, seeks oil in Libya R Teijin plans polyester tube plant R			35
Gas pipeline from Reeves County, Tex., to	oct	10	62	Construction	Dec	17	31	Teijin plans polyester tube plant R	Aug Aug July	23	25 32
Texas' Gulf Coast area will be built by Houston Natural Gas	Dec	3	9	ICI expansion of plastics productionN Japan: Showa Denko plans plastic center.	Sept	17 20 26 27	103 36 27	Water-fillable resins C Yugoslavia joint venture polyester fiber	July	19	32
Hazardous materials: proposal to require immediate reporting of accidents involv-				Japan: Showa Denko plans plastic center. Mobile home production: Not so 'mobile'.	Sept	27	27	plantN	Nov	19	113
ing transportation of hazardous materials	Nov	12	22	Mobile home production: Not so 'mobile', but going places (chart & table)	Oct	18	29	Polyethylene Automobiles – Pontiac's switch to a			
published	NOV	12	21	N.Y. City may use plastic and paper bags throughout the city for garbage				high-density PE gas tank on station			
transportation of hazardous materials, to recommend organizational changes,				disposal	Nov	5	36	wagons sold in Calif	Sept	6	13
created	Nov	19	23 17	(charts & table)	Oct	4	41	expansions	Sept	20	48
Natural gas pipeline proposed to bring gas from Canada and Alaskan North	-			Paint to prevent tooth's decay will be tested by NIDR	Oct	29	40	PE expansionsN	Sept	20	48
Slope to the U.S	July	5	32	Polymers see Polymers	OLL	27	40	Celanese will increase Houston, Tex., HDPE (Fortiflex) capacityN	Oct	4	9
Northern Natural Gas seeking FPC okay to build pipeline facilities to import				Polyolefins see Polyolofins Printing plates: Reichhold-Wood's Poly-				Cities Service's Polymer Div. awards Fluor Corp. construction contract for			
Canadian gas	Oct	11	27	Autoplate system for high-quality letter-	Dec	3	9	Lake Charles, La. PE plant R Dow building plant in Honolulu to make Polymulch PE mulching film for sale to the pineapple industry and Hawaiian connectes.	Aug	23	22
Russian agreement with Japan for construc- tion of a 900-mile gas pipeline connect-	Cant	20	40	Radiation machinery's nuclear irradiator	-	-	,	Polymulch PE mulching film for sale to			
ing Okha with Hokkaido	Sept Sept	20	48 48	onstream at Hanover, N.J. plant to produce irradiated wood/plastic parquet flooring. N Returnable plastic milk bottles — "best buy" for dairymen? — letter		•	22		Aug	23	22
Russians negotiate natural gas-pipeline deals in Europe and Japan	Oct	29	50	Returnable plastic milk bottles - "best	Aug	9	33	Du Pont's PE film plant at Buffalo, N.Y., will be shut down	July	26	37
Sea Robin Pipeline's financing set for project that will bring in natural gas				- letter	Aug Sept	6	29	Fine-particle PE made by nuclear radia- tion begins test phase in Japan N	Dec	17	70
from beneath the outer continental shelf of the Gulf of Mexico off the				Signal's Lee Daly: Charting a new course in plastics	Oct	18	109	Gulf awards contract to Steams-Roger to expand low-density PE plant at Orange,		-	
Louisiana CoastN TAPS will be under the strictest con-	Aug	23	14	Swedish Academy of Engineering Sciences says more plastics in packaging poses no				Tex	Nov	12	22
trols ever placed on pipeline builders	Nov	12	31	real threat to the environment N	Oct	18	71	France R	Oct	29	56
TAPS way cleared	Dec Sept	24 20	31 38	Thermoplastic combining fluorocarbon and ion exchange properties called XR N	Sept	20	124	High-density PE prices	Dec	24	58
Vortex-shedding flowmeter keeps tabs on process pipelines' fluid pulse beat				Plastics see also specific plastic				Chemical to form a U.S. company to engage in production and sale of ir-			
(diagram)	Aug	16	107	Ploting Metal finishers are feeling the brunt of				radiation cross-linked PE foamR ICI will boost PE capacity in Europort,	Sept	13	18
Waste disposal – piping waste 100 miles to sea – quick "save" for Delaware basin?	July	19	65	cadmium and nickel shortages N	Aug	23	59	Netherlands	Aug	16	56
- letters Aug 30-5,	Sept	27	4	Metal-plating processes can halve nickel comsumption	Dec	10	63	IPAKO expansion program at Ensenada, Argentina Aug 9-25,	Oct	29	57
Plant Lecation				Zinc brighteners C Platinum – Prices N	Aug	23	79 38	Low-density PE plant at Swartbaeck, Finland	Oct	29	57
BASF's industrial complex in southeastern South Carolina being fought by the area's				Poland		-	-	Finland	Dec	24	58
residents. Louisiana losing its lure? Odessa, Tex., to be fount of learning or fount of oil?	Dec Nov	10	22 19	Five Eastern European nations have				Low-density PE resin prices	Sept	6	34
Odessa, Tex., to be fount of learning or	Nov	5	21	combined to strengthen their chemical industries	Aug	23	28	Monsanto will up PE film and sheet extrusion capacity at Kenilworth, N.J. 5	Dec	10	22
Plant sites 1969 report, J.M. Winton	-			industries				National Distillers will double capacity of low-density PE plant near Antwerp I National Distillers-Phillips set Canadian	Oct	11	36
(charts & tables)	Oct	29	59	RussiansN West Germany resumes trade talks on a	Nov	19	113	National Distillers-Phillips set Canadian PE project	Aug	2	14
Div. — ousted from old brick building at Cambridge — builds a bigger, better plant				'70 agreement R	Dec	17	26	Northern Natural Gas plans olefin and low- density PE plants at Joliet, III N	Aun	23	13
at Carteret	Sept	27	48	Polishes Floor polish dispersionC	Dec	17	70	Northern Petrochemical will acquire Mon-	rug		.,
Plants Giant single-train urea plants are here				Furniture polish concentrate C	Nov	19	104	santo's domestic low-density PE business, including LDPE plant at Texas City, Tex., complex		**	**
(chart)	July	19	59	Polyacrylonitrile see Acrylonitrile				Plastic film see also Plastic Pilm	Sept	20	39
Div ousted from old brick building at				Polyamides	0-4	10	40	Resin prices	Aug	30	29
Cambridge - builds a bigger, better plant at Carteret	Sept	27	48	European outlook	Oct	18	69	buy" for dairymen	Aug Sept	9	29
Soviets' new plant construction regulations	July	19	48	fiber, a film and a varnish N Polyarylsulfone — High-temperature	Oct	29	120	Soc. Lorraine de Polyolefines plans low- density PE plant at CarlingR		0	25
Plastic Film Borden doubles packaging film capacity at				plastic	Sept	20	103	Solvay moving ahead with diversification	Aug		
Compton, Calif R	Dec	17	26	Polybutadiene – Goodyear Tire & Rubber to expand Beaumont, Tex. plant N	Sept	27	9	Sumitomo's test plant to produce high-	Dec	10	28
Celanese polyester film plant at Greer, S.C., startup	Oct	4	9	Polybutenes — BP Chemicals' installation at Grangemouth, Scotland	Oct	11	36	density PE	Dec	17	40
Du Pont's PE film plant at Buffalo, N.Y., will be shut down	July	26	37	Polycarbonates - Sports market - snow-				expansion R Aug 9-25,	Dec	17	40
Hoechst and Saarbergwerke joint plant in Neunkirchen	Aug	16	57	mobile receipe	Dec	24	68	Japan	Oct	18	72
tCl polyester polymer and film complex at Hopewell, Va	Oct	11	27	Polyelectrolytes National Starch's new plant at Meredosia,				Polyimides — Three new high-temperature products; a fiber, a film and a varnish. N	Oct	29	120
Japanese biaxially oriented PP film	Nov	19		Polyelectrolytes for treating waste –	Aug	2	27	Polyisoprene - Consumption and capacity	Aug	23	60
plant planned				letter	July	26	5	in the U.S	Aug	63	31
will be marketed in the U.SN Oriented propylene film pricesN	Nov	19	89 29	membranes - letter	July	12	8	merization of vinyl acetate homopoly- mers and copolymers move into the			
Oriented propriette titili prices	Nov	5	30	Polyesters				pilot plantN	Dec	10	67
PE film pricesN	1101										
PE film prices	1100			American Enka boosting polyester staple							
PE film prices N Pleaticizers BASF Canada's Laval, Montreal, complex ground-breaking N	Sept	20	48	fibers production at Lowland, Tenn.,	July	5	19	Polymers Celanese will boost production of			
PE film prices N Plasticises BASF Canada's Laval, Montreal, complex ground-breaking Dioctyl and disodecyl phthalate off- list prices being terminated N	Sept Dec	17	55	fibers production at Lowland, Tenn., plant	-	5	19	Celanese will boost production of Celcon acetal copolymer at Bishop,	Oct	4	9
PE film prices	Sept	17 26	55 143	fibers production at Lowland, Tenn., plant R Celanese polyester film plant at Greer, S.C. startup N Controller fiber plant at Controller N	Oct	4	9	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex	Oct	4	9
PE (ilim prices N Pleatici.eva BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. N	Sept Dec Nov	17 26	55 143 33	fibers production at Lowland, Tenn., plant R Celanese polyester film plant at Greer, S.C. startup N Controller fiber plant at Controller N	-	5 4 26	9	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex	July July	4 26 26	9 37 57
PE film prices N Pleaticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and disodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Phthalate plasticizers prices N Phthalate plasticizers prices N Phthalate plasticizers prices N	Sept Dec Nov Aug Nov July	17 26 16 12 5	55 143 33 38 31	fibers production at Lowland, Tenn., plant R Celanese polyester film plant at Greer, S.C. startup N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned	Oct July July	4 26	9 14 17	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation N Emulsion, solution polymers C Floor polish dispersion C ICI polysester polymer and film complex	July July Dec	26 26 17	57 79
PE (ilim prices N Pleatici.eva BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. Phosphate ester plasticizer prices N Prithalate plasticizers prices N Prithalate plasticizers prices N Prices Reichhold Chemicals inc.'s Plasticizer	Sept Dec Nov Aug Nov	17 26 16 12 5	55 143 33 38 31	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, S.C. startup Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned No U Pont of Canada's Dacron polyester fiber plant expected to start up in '71 at Morrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filment varn canacity at	Oct July July Oct	4 26 19 18	9 14 17 69	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation N Emulsion, solution polymers C Floor polish dispersion C ICI polyester polymer and film complex at Hopewell, Va. Industrial coadulant aid C	July July		57
PE film prices N Pleaticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Prithalate plasticizers prices N Prices N Prices N Prices Plasticizer prices N Prices N Prices Div. — ousted from old brick building at Cambridge — builds a bigger, better plant	Sept Dec Nov Aug Nov July July	17 26 16 12 5 19	55 143 33 38 31 38	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned Du Pont of Canada's Dacron polyester fiber plant expected to start up in '71 at Norrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, M.C. expansion R	Oct July July	4 26	9 14 17 69	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation N Emulsion, solution polymers C Floor polish dispersion C CI polyester polymer and film complex at Hopewell, Va Industrial coapulant aid C Polyelectrolytes see Polyelectrolytes	July July Dec Oct Dec	26 17 11 17	57 79 27 79
PE (ilim prices N Pleatici.eva BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer O Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Prices N Prices N Reichhold Chemicals Inc.'s Plasticizer Div. — ousted from old brick building at Cambridge — builds a bigger, better plant at Cambridge — builds a bigger, better plant	Sept Dec Nov Aug Nov July July	17 26 16 12 5 19	55 143 33 38 31	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned Du Pont of Canada's Dacron polyester fiber plant expected to start up in '71 at Norrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, M.C. expansion R	Oct July July Oct	4 26 19 18	9 14 17 69 18	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation. N Emulsion, solution polymers. C Floor polish dispersion. C ICI polyester polymer and film complex at Hopewell, Va	July July Dec Oct Dec	26 17 11 17	57 79 27 79 79
PE film prices N Pleaticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer N Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Phthalate plasticizers prices N Prices N Reichbold Chemicals Inc.'s Plasticizer Div. — ousted from old brick building at Cambridge — builds a bigger, better plant at Carteret	Sept Dec Nov Aug Nov July July Sept	17 26 16 12 5 19	55 143 33 38 31 38 48	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned Du Pont of Canada's Dacron polyester fiber plant expected to start up in '71 at Norrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, M.C. expansion R	Oct July July Oct Sept	4 26 19 18 13	9 14 17 69 18 34	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N. J., polymer complex now in operation. N. Emulsion, solution polymers. C. Floor polish dispersion. C. I. C. polyester polymer and film complex at Hopewell, Va. Industrial coapulant aid. Polymeric amine. Polymerication. Peloymerication Pelo marketed in Japan. N. Prices. N. Prices. N.	July July Dec Oct Dec	26 17 11 17	57 79 27 79
PE film prices N Plasticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and disodecyl phthalate off- list prices being terminated N Epotry plasticizers Monsanto plans plant at Texas City, Tex. Phthalate plasticizers prices N Phthalate plasticizers prices N Prices N Reichhold Chemicals Inc.: S Plasticizer Div.—ousted from old brick building at Cambridge—builds a bigger, better plant at Carlerte Plastics ABS, high-impact ABS plant at DSW's Geleen complex R	Sept Dec Nov Aug Nov July July Sept Nov Oct	17 26 16 12 5 19 27	55 143 33 38 31 38 48	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, S.C. startup. N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned. N Du Pont of Canada's Dacron polyester fiber plant expected to start up in 71 at Morrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, N.C. expansion. R Fiber Industries' plant near Durham, N.C. plans shelved. N Goodyear's contracts for polyester cord project at Scottsboro, Ala. R Hercules is increasing DMT capacity of its Hanover plant in Willinigdon, N.C.	Oct July July Oct Sept Aug July July	4 26 19 18 13 16 12	9 14 17 69 18 34 21	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation. N. Emulsion, solution polymers. C. Floor polish dispersion. C. Cl. polyester polymer and film complex at Hopewell, Va. Industrial coapulant aid. C. Polyelectrolytes see Polymericamine. C. Polymericamine. C. Polymericamine. C. Polymericamine. C. Polymerization see also Polymerization. N. Prices. N. Radiation-induced polymerization of	July July Dec Oct Dec Oct Oct	26 17 11 17 17 18 29	57 79 27 79 79 79 72 105
PE film prices N Plasticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and diisodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Phithalate plasticizers prices N Prices N Reichbold Chemicals Inc.'s Plasticizer Div. ousted from old brick building at Cambridge – builds a bigger, better plant at Carteret Plastics ABS, high-impact ABS plant at DSM's Geleen complex R Aircraft market: makers see bright future.	Sept Dec Nov Aug Nov July July Sept Nov Oct Aug	17 26 16 12 5 19 27 19	55 143 33 38 31 38 48 48	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, S.C. startup N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planmed N Du Pont of Canada's Dacron polyester fiber plant expected to start up in '71 at Morrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, N.C. expansion R Fiber Industries' filament yarn capacity at Salisbury, N.C. expansion R Fiber Industries' filament yarn capacity at Goodyear's contracts for polyester cord project at Scottsboro, Ala. Hercules is increasing DMT capacity of its Hanover plant in Wilmington, N.C. ICI aims to kreen its outwester share.	Oct July Oct Sept Aug July July Aug	4 26 19 18 13 16 12 12 2	9 14 17 69 18 34 21 14 15	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation . N. Emulsion, solution polymers . C. Floor polish dispersion . C. Cl. polyester polymer and film complex at Hopewell, Va. Industrial coapulant aid . C. Polyelectrolytes see Polyelectrolytes see Polyelectrolytes see Polyelectrolytes . C. Polymerization see also Polymerization . C. Polymerization see also Polymerization . N. Prices . N. Radiation-induced polymerization of vinyl acetate homopolymers and copoly-	July July Dec Oct Dec Oct Oct Oct	26 17 11 17 17 18	57 79 27 79 79 79 72 105
PE film prices N Pleaticizers BASF Canada's Laval, Montreal, complex ground-breaking N Dioctyl and disodecyl phthalate off- list prices being terminated N Epoxy plasticizer C Monsanto plans plant at Texas City, Tex. N Phosphate ester plasticizer prices N Prithalate plasticizers prices N Prithalate plasticizers prices N Prices N Prices N Prices Plasticizer prices N Prices C Plasticizer Div. — ousted from old brick building at C Cambridge — builds a bigger, better plant at Carteret Plastice ABS, plant at DSW's Geleen complex R AIRCRAft Market: makers see bright future.	Sept Dec Nov Aug Nov July July Sept Nov Oct Aug	17 26 16 12 5 19 27 27 19 11 19	55 143 33 38 31 38 48 48	fibers production at Lowland, Tenn., plant Celanese polyester film plant at Greer, S.C. startup. N Courtaulds' fiber plant at Carrickfergus, Northern Ireland planned. N Du Pont of Canada's Dacron polyester fiber plant expected to start up in 71 at Morrisburg, Ont. Europe's synthetic fiber outlook cheerful Fiber Industries filament yarn capacity at Salisbury, N.C. expansion. R Fiber Industries' plant near Durham, N.C. plans shelved. N Goodyear's contracts for polyester cord project at Scottsboro, Ala. R Hercules is increasing DMT capacity of its Hanover plant in Willinigdon, N.C.	Oct July July Oct Sept Aug July July	4 26 19 18 13 16 12	9 14 17 69 18 34 21 14 15	Celanese will boost production of Celcon acetal copolymer at Bishop, Tex. Drew's expansion at its Boonton, N.J., polymer complex now in operation. N. Emulsion, solution polymers. C. Floor polish dispersion. C. Cl. polyester polymer and film complex at Hopewell, Va. Industrial coapulant aid. C. Polyelectrolytes see Polymericamine. C. Polymericamine. C. Polymericamine. C. Polymericamine. C. Polymerization see also Polymerization. N. Prices. N. Radiation-induced polymerization of	July July Dec Oct Dec Oct Oct Oct	26 17 11 17 17 18 29	57 79 27 79 79 79 72 105

Three new high-temperature products; a fiber, a film and a varnish	Oct	29	120	Fertilizer outlook for '70: Overcapacity burdens fertilizer markets (chart)	Aun	14	91	BP's subsidiary for production and sale of protein from petroleum; two plants at			
Uniroyal's Vibrathane 6005 printing roller coating	Aug	23	68	Hungary's Chemolimpex investing \$54 million in a Canadian potash project N	Aug	16	91	France	Dec	17	40
Polyolefins				Sulfate of potash prices	Oct Sept	11	42	common jungle weeds			115
Crown Zellerbach obtains rights to a Japanese "polyolefin paper" process . N Huels' joint venture with VEBA-Chemie	Dec	10	67	Potessium Ion-exchange electrodes for potassium		-		First solid evidence that poly I:C in- duces interferon production in humans presented by M. Hilleman of Merck			
to double polyolefin capacity Polyphoric Materials — Shoe-upper materials	Aug	30	32	detection N Royal Dutch/Shell drilling in Groningen	Aug	23	74	Institute	Dec	24	72
exhibited at Leather & Allied Industries Exposition	Nov	19	76	province, HollandN Potassium Chloride — Dumping: Treasury Dept. says Canada, West Germany and	Oct	29	49	Fish — World's largest permanent float- ing fish-protein plant will be built by a Scandinavian consortium	Oct	4	48
Polypropylene Days-Ease system uses Mylar-backed				France are dumping potassium chloride		20	10	best answer to protein famine	Dec	17	61
PP pouch Diamond's Houston PP operations	Oct	29	88	in the U.S	Aug	30 5	19 31	Fish protein plant will be built by Car- dinal Protein Ltd. in Nova ScotiaN French plant at Cap Lavera to produce	Dec	3	10
expansion	Oct	4	9	Potassium Silicate — Prices N Power — Coal, not nuclear fuels, proposed	Nov	19	75	protein concentrate biomass from			
backing plant expansionR	Nov	19	44	as 3 mill power source (table)	Oct	4	26	hydrocarbons	Dec	3	24
Europe's synthetic fiber outlook cheerful. Imperial Oil plant at Sarnia complex,	Oct	18	69	Prices				waste by the dairy industry may be converted into a high-protein food			
IPAKO Argentine expansion completed R	July Oct	29	34 57	CW's computerized chemical stock prices (table) July 5-20, July 12-22, July 19-27, July 26-22, Aug 1-15, Aug 9-18, Aug 16-44, Aug 23-24, Aug 30-17, Sept 6-18, Sept 13-20, Sept 20-44, Sept 27-20, Oct 4-17, Oct 11-30, Oct 18-36, Oct 29-36, Nov 5-22, Nov 12-24, Nov 19-46, Nov 26-32, Dec 3-18, Dec 10-24, Dec 17-28.				Supplement	Nov	12	27
Montedison patent suits alleging infringe- ment brought against Phillips Petroleum, Diamond and Eastman KodakN	luly	5	43	Aug 30-17, Sept 6-18, Sept 13-20,				putting "petro-protein" on the table (table)	Aug	2	41
Neofil's plant at Terni N	Oct	18	66	Sept 20-44, Sept 27-20, Oct 4-17, Oct 11-30, Oct 18-36, Oct 29-36,				- letter Protein from cellulose waste products		20 12	16 49
Plastic wrapper for roads allows builders to substitute native clay soils for				Nov 5-22, Nov 12-24, Nov 19-46, Nov 26-32, Dec 3-18, Dec 10-24.				Public Relations			
granular base	July	12	25	Dec 17-28, N Consumer Price Index moved up 0.5% N	Dec Oct	24 29 12	28 40	American Paper Institute's film "So What's So Special About Paper"? is			
Rheinische Olefinwerke's plant at Wesseling, West Germany	July	5	34	How the CPI reads the indicators Wage-price control possibility keeping	Nov	12	16	effort to interest young people in the	Sept	27	53
Shell Chemical boosts capacityN	Dec Dec	24	39 20	business edgy	July	26	25	industry. Houston oil men organize "to disseminate the facts" about the oil, gas and petrochemical industries	эсре		33
Monsanto and American Biltrite	Aug	30		Aug 30-30,R	Nov	5	21	the facts" about the oil, gas and petro- chemical industries. Public wrath over plant odors spurs use of "neutralizing" aromas (table). Science as a foreign policy tool gains favor with Pres. Nixon. N	Dec	24	25
Toyo Rayon PP plans	Sept	6	36 24	Printing				of "neutralizing" aromas (table)	Aug	16	94
Polypropylene Glycol - Dow planning				Philadelphia Bulletin will use Poly-Auto- plate system for high-quality letter-				favor with Pres. Nixon	Sept	6	23
Australian plant	Nov	19	114	press color printing	Dec	3	9	Publisher's Page — New job, but a familiar mission. P.L. Mc Pherson	Nov	19	5
First solid evidence that poly I:C in-				press color printing Staley's prepress colorproofing system N July 12-44 Uniroyal's Vibrathane 6005 printing	Aug	9	33	Puerto Rico			,
duces interferon production in humans presented by M. Hilleman of Merck	Dan	24	72	roller coating	Aug	23	68	Penuelas refining complex expansionN UC's Penuelas project expansion (table)	Oct	4	9
instituteN	Dec	24	72	Process Equipment				N July 5-10N	July	12	13
Polystyrene BASF plans Latin American investment	_			Air-cooler sales begin upswing as fresh- water reserves shrink	July	5	22	Pulp			
BASF Styropor plant in Jamesburg, N.J.	Dec	10	28	Chemshow reflects healthy state of chemical equipment business	Dec	10	57	Contract to investigate activated carbon for reclaiming water from pulp mill			
expansion	Sept	27	18	chemical equipment business "Conversion-rolled" titanium-clad steel plate in Du Pont's top new contender for				effluent awarded to St. Regis PaperN International Paper's Texas expansion	July	5	44
plant capacityR	Dec Dec	10	22	use in the fabrication of process vessels	Dec Sept	17 20	25	scaled down	Sept	20	33
Prices N Selective polystyrene prices N USS Chemicals' Haverhill, O., complex	Dec	17	55 36	Cryogenic vaporizer			5	Papermarkers try new technology in battle to trim operating costs	Cant	27	52
contract to Litwin	Aug	2	10	industry – letter	Aug	16	35	U.S. Plywood-Champion will supply Alaskan unbleached pulp and lumber to	Sept	27	32
Polystyrene see also Styrene Polytetrafluoroethylene — ICI producing				N/C cuts production costs for urethane foam maker	Dec	3	51	Kansaki Paper Mfg. Weyerhaeuser studying new method of	July	12	13
PTFE at Bayonne, N.J. complex Polyvinyl Alcohol – Japanese hot-water-	Oct	11	27	"Moon valve" seeks down-to-earth CPI				processing pulp that involves an			
soluble PVA film will be marketed in the	Mari	70	00	process control jobs	Aug	19	100	organic solventN	Dec	3	9
U.SN Polyvinyl Butyral – Monsanto will boost PVB	Nov	19	89	Sludge discharger	Sept	20	103	Pumps Centrifugal pumps	July	26	57
sheet and resin capacity R Nov 12-22,. R	Nov	12	30	and other heavy steel components for CPIN	July	19	51	Corrosion-resistant pumps	Aug	26 16 29	110
Polyvinyl Chlorido Bottle prices	July	19	38	Product Development – How to court the consumer – report Herbert Terry	,		-	Plastic pumps	Nov	29 19	101
Bottle prices	Dec	24	38 67	What it costs to launch a consumer	Aum	14	47	ment procurement policies and procedures	Ont		10
duction capacity at Delaware City, Del., boost	Sept	20	43	product (table)	Aug	16	67	will be named soon	Oct	4	19
Goodrich's new effluent-treatment system	- 1			Production Cartex uses numerical control to increase				guaranteed to control corrosion in am- monia and hydrogen purification units . N	Aug	9	33
for PVC plant near Pedricktown, N.J Japanese expansionsR	Oct	18 23	105 35	CPI shipments rise	Dec Nov	12	51 22	Pyrochlore – UC columbium mining pro- ject in Congo	July	12	37
Societa Chimica Ravenna's unit planned	July	5	34	show signs of slowdown - FRB figures.	Oct	29	35	Jeet III Goligo	July	46	31
Solvay continues to boost its capacity in Europe	Nov	19	113	Industrial operating rates in most major segments of the CPI down in October . N	Nov	26	21	Q			
Brussels	Dec	10	28	Russian chemical industry output up: snags remain (chart)	Dec	17	35	Quality Control - Squibb's new plant			
Taiwanese plant at Singapore planned R Ulysses Irrigation will produce extruded	July	5	34	Propone			-	introduces new manufacturing, pack- aging, warehousing, quality-control		30	100
PVC irrigation pipe	Nov	26	22	Bayer ups capacity	Aug	9	24	units	Nov	19	107
VCM and PVC plant at Porvoo, Finland . K	Sept	13	34 29	contract	Aug	2	27	D			
Polyvinylpyrrolidone – GAF's PVP – Nov 19-128 – letter	Dec	10	5	LPG feedstock shortage is coming (charts)	Sept	20	37				
Peromeric Materials				Propellants - Tripropellant systems may be feasible for rocket engine for new space				Rodiction Esso Research licenses radiation-induced			
Poromerics: many starters, few finishers. Shoe-upper materials were exhibited at	July	26	43	shuttle vehicle N	Sept	27	23	process for making linear sodium alkane sulfonate to Hodogaya Chemical,			
Leather & Allied Industries Exposition N Tenneco's Jentra 3, shoe-upper material N	Nov	19	76	Propylene Calvo-Montedison polypropylene				Japan N Fine-particle PE made by nuclear radia-	Dec	10	67
Oct 18-71,	Nov	19 26	76 12	expansions N	Sept	20 18	48	tion begins test phase in Japan N Nuclear radiation applying for job in	Dec	17	70
	1404	20	46	Europe's synthetic fiber outlook cheerful Oriented film pricesN	Nov	5	69	enzyme processing	Aug	23	74
Antidumping hearings against foreign				Propylene Glycol				acetate homopolymers and copolymers move into the pilot plant N			
potash producers N Tariff Comm. ruling expected N	Sept Nov	13 12 3	23 27 35	Dow planning Australian plant N Prices N	Nov	19	114	Sterilization by a combination of heat	Dec	. 10	67
Brighter februa for fartilizer 2 Cales	Dec			Propylene Oxide				and nuclear radiation N	Oct	11	56
figures show increase	Dec	17	51	Arco Chemical and Halcon International project near Rotterdam	Aug	16	56	Roilroads Derailments force rail safety overhaul	Sept	27	14
rigures show increase Canada: Prorationing plan N Aug 16-88, N Oct 29-105, N Nov 12-37, N Canada prorationing plan: Will it cut the mounting pile (tables) Canada: Saskatchewan's production and	Dec	24	57	Plant will be Europe's largest R	Oct	11	36 41	Freight rate not going up; ICC denies re- quested 6% increase	Oct	29	40
mounting pile (tables)	Nov	19	36	PricesN	OCT	11	41	Freight rates see Freight Rates	Jet	64	40
	Nov	26	119	Protein ACS 158th national meeting: food from			111	Hazardous materials see Shipping Illinois Central Railway cars of vinyl			**
Canadian freight rates are shaping up as a treat to potash industry	Dec	3	36	garbage	Sept	20	114	ICC orders another crackdown on delays	Sept	20	38
Dead Sea Works expansion R	Dec	24	39	useless solid refuse into a high-protein animal fodder	Sept	20	114	in returning railroad freight cars by non- owners N	Sept	13	23
				(N Newsletter. R Roundup. C Countdo	own)			****			

Kansas City Southern freight train explo- sion unexplained											
	Aug	9	28	Reverse-osmosis and ultra filtration mov- ing out of the laboratory and into com-				Monsanto Iberica plans to produce rubber chemicals in Spain	Nov	19	114
(charts & tables)	Oct	20	60	mercial use: Wide markets for thin mem-	A	20	22	Polybutadiene plant at Mitsubishi's			
Strike threat N Aug 30-30 N	Oct	29	59	branes (chart)	Aug	30	33	complex planned		23	120
Nationwide strike could start Dec 3 N	Nov	19	34	expenditures at AIChE meeting	Nov	26	129	Rubberized automobile bumpers	Nov	5	59 21
Nationwide strike in January: threat heightens N	Dec	24	17	Science as a foreign policy tool gains				Synthetic rubber outlook in U.S. is rosy	Dec	17	52
Strikes: 'Selective' rail strikes?	Sept	24	16	favor with Pres. Nixon	Sept	6	23	Thin, strong, unsupported silicone rubber membrane will permit the building of			
Transit program in trouble	Aug	16	39	to establish a cooperative R&D enter-				more compact heart and lung machines N	Oct	29	119
Trip-leased railroad cars used for storage		20		prise to be called Fluid Particle	0-1	**	20	Rubber Manufacturers Assn Industrial			
Pandolch Carl III S Boray's new	July	19	41	Research, Inc	Oct	11	28	rubber sales R	Oct	18	34
Randolph, Carl L U.S. Borax's new president: A sailor drives the mule team	Oct	4	53	with a potato? Study on somatic hybridi-				Rumania			
Rare Earths - Micro "magnetic bubbles"				zation or nuclear fusion of plants N	Sept	20	124	Coppe-Rust will build its third urea			
may be the answer in building low-cost,				Resins				plant N		12	33
compact computers and telephone switching systems N	Aug	16	102	ABS see Plastics				Fertilizer plans	Aug	2	22
Rats - Chlorohydrin sterilant for rats N		20		Acetal resin demand picking up N	Oct	11	42	Russia			
	acp.		200	Borden boosts urea and phenolic resin				Agreement with Japan for construction of a			
Reyon Courtaulds continuous filament rayon				capacity at Freemont, Calif., Kent, Wash., and Springfield, Ore N	Aug	30	9	900-mile gas pipeline connecting Okha			
yams production at Cornwall, Ont.,				Bulk vinyl resins prices N	Nov	5	29	with Hokkaido N Ammonia plant R	Sept	20	32
plant will cease N	July	12	29	Dow planning epoxy resin plant in		20	***	Bayer negotiating technical exchange		**	76
Polyester battle for tire market: Ford abandons the PEG-BB tire N	Oct	**	41	Australia	Nov	19	114	arrangement in the plastics field N	Nov	19	113
Prices	Oct Oct	11	37	Epoxy resin joint venture in Japan R	Nov	19		Cesium oxide imports from Tantalum Mining of Canada	Oct	29	119
Producers moving to get more of				Fireproof resin chief binding agent	July	12	27	Chemical industry output up: snags	OCI	27	117
lucrative staple market	July	19	24	in a paint	July	26	57	remain (chart) ENI customer for Russian natural gas N	Dec	17	35
Reactors				Hot-melts score sizzling success — letter lon exchange may pay off in soybean	July	26	5	Esso Research received government	Dec	17	32
Australia AEC pilot plant to hurry manu-				Ion exchange may pay off in soybean		10	77	contract to answer the question: Why			
facture of uranium oxide fuel pellets for	Cont	27	**	processing	Oct	18	72	has the USSR not cashed in on its out-			
Pow will participate in feasibility	Sept	21	58	Paper-coating resin	Oct	29	129	outstanding theoretical studies in catalysis? Conclusion	Cant	20	227
studies for a proposed agro-industrial				Pennsylvania Industrial Chemical				Ethylene plant from Japanese groups	Sept	20	117
nuclear energy complex in Puerto Rico N	Aug	16	34	Producing synthetic resin at Baton Rouge, La., plant	Aug	23	22	could mean more U.S. technology for			
Fast way to load catalyst into fixed bed	Cant	20	124	Polyamides see Polyomides	rug	23	22	USSR N July 19-45 N	Aug	30	39
reactor tubes	Sept	20	124	Polybutylene resin capacity at Mobil'				Five Eastern European nations have combined to strengthen their chemical			
a big push in Europe N	Dec	17	70	Beaumont, Tex., plant doubled R Polycarbonates see Polycarbonates	Oct	29	35	industries	Aug	23	28
Gulf scaling up a high-temperature gas- cooled reactor at Fort St. Vrain, Colo. N	Don	17	70	Polyesters see Polyesters				Natural gas for west Germany N	Sept	20	48
High-temperature gas-cooled reactor	Dec	17	70	Polyethylene see Polyethylene				Natural gas-pipeline deals in Europe and Japan	Oct	29	50
(HTGR) to be employed at Philadelphia				Polyvinyl chloride see Polyvinyl				Nuclear reactor specialists return home	OCI	67	30
Electric's Peach Bottom plant N	Dec	3	45	Chloride Polymer Applications alkylphenol-				after U.S. tour	Dec	10	64
Indian heavy-water plant will use an ammonia-hydrogen exchange process to				acetylene plant in Tonawanda, N.Y R	Sept	27	18	Reichhold Chemie (Austria) agreement to supply with industrial paint know-how;			
separate deuterium from heavy water . N	Oct	11	56	Reichhold plans formaldehyde and				also provides for the sale of leather,			
Soviet nuclear reactor specialists return			-	synthetic resins plant at Albany, Ore. R	Dec	10	22	wood and automobile finishes to the			
home after U.S. tour	Dec	10	64	Resin tackifier	Aug	19	35	Soviets	Aug	9	26
Swedish Assn. of Engineers running a contest to find out what you can do with						-		Welding in space – first reports N	Oct	19	48 119
the waste heat from a nuclear reactor N	Dec	17	70	Resorcisel Boom in glass-fiber cord is sparking				Rust Preventive - Rust-inhibitors C		20	103
Swedish venture to make reactor vessels				a boomlet for resorcinol N	Dec	10	53				
and other heavy steel components for CPI	July	19	51	Signal Chemical to make resorcinol by				c			
Reagents - Metal complexing reagent C	Sept	20	100	proprietary process as a springboard into hydroquinone production; plant				3			
Reforming - UOP obtains rights to	-	-		at Bayport, Tex N	Oct	11	55				
Japanese town gas process, MRG N	Nov	19	89	Reverse-osmosis and ultrafiltration moving				Saccharin - Ban on sweetener sours flavor		_	
Refrigeration — Controlled oxygen atmosphere for food preservation	July	26	28	out of the laboratory and into commer- cial use: Wide markets for thin mem-				outlook too (table)	Nov	5	16
atmosphere for 1900 preservation	July	60	20	branes (chart)	. Aug	30	33	Safety			
Research				BL-15-15				Air bags may join seat belts as major auto			
"Anomalous" (or ortho or poly) water is winning more attention N	to be	12	42	Chromium ore imports are about to be				Safety devices	Aug	30	46
Chemical-biological weapons virtually	July	12	43	approved by the White House	. Nov	19	48	eliminate bugs in air bags N	Sept	6	48
halted	July	12	14	UC asks approval to import ore from				Automobile exhaust control devices,			
Chemicals in search of a market -				Rhodesia to relieve U.S. dependence on Russian supplies N	Oct	29	106	automobile safety see Automobiles Chemical plant operators take college			
descriptions and suggested uses are given for hundreds of developmental				UC chrome operations not going	oct	67	100	course in fire fighting	Sept	13	59
chemicals Pt. 2	Oct	11	537	so well R	July	12	37	Congress' agenda: trade, aid and	Dee	24	20
Du Pont's R&D operation: a \$250 million budget; Lenher tells where the money				Rhodium – Prices N	Nov	12	38	pollution (table)	Dec	24	20
goes	Aug	9	15	Ribonucleic Acid				materials in pipelines	Oct	18	62
Enzyme research pushed by British N	Nov	12	44	First solid evidence that poly I:C induces				Drive to get perishable foods off grocery			
Esso Research tries to cross-breed basic and applied research	Oct	11	48	interferon production in humans pre-				shelves when they become outdated N Drugs see Drugs	Nov	26	35
Ethyl Corp.: Putting new push into Ethyl -		44	40	sented by M. Hilleman of Merck Institute	Dec	24	72	Enzyme detergents may be the next target			
report Anthony J. Piombino (charts &			47	New preventive for foot-and-mouth disease	Der.	5.4	14	of federal consumer safety agencies. N	Dec	10	54
table)	Aug	23	47	stimulates interferon production by				Gulf of Mexico: tougher regulation for oil, gas and sulfur drilling			20
R&D (chart)	Oct	29	111	injecting RNA N Robson, Ernest – Monsanto's director of	Dec	3	45	Hazardous materials: proposal to require	Sept	6	10
First solid evidence that poly I:C induces				purchasing: Traveling man switches				immediate reporting of accidents involv-			
interferon production in humans pre- sented by M. Hilleman of Merck				from selling to buying	Dec	10	80	ing transportation of hazardous materials	Ale	2.0	
Institute	Dec	24	72	Rockets - Nuclear power may replace				published N Hazardous materials; task force on ·	Nov	12	27
Fish protein concentrate stacks up as				chemical power in space exploration		24		transportation of hazardous materials			
General Foods nutrition research stepped	Dec	17	61	Rodenticides – M&T 5-para-chlorophenyl	Aug	16	47	to recommend organizational changes	No	_	0.0
up; consolidating existing programs in				silitrane rodenticide	Dec	17	82	created N Hearing protectors C	Nov Sept	20	101
a new Center for Applied Nutrition N	July	19	52	Rosin - Prices N		13	54	Insecticides see also Insecticides	Jept	20	101
How do you turn laboratory accidents into corporate profits? American Oil's								Nixon Administration says federal govern-			
Steigelman is trying to find out N	Nov	12	44	Americal SN high air polyicomena nubbar				ment should set and police health and			
How to court the consumer - report		-		Ameripol SN high-cis polyisoprene rubber prices N	Aug	30	29	safety standards for most U.S. manu- facturing plants N	Aug	9	12
Herbert Terry (table)	Aug	16	59	ANIC will double synthetic elastomer				Nuclear safety see Atomic Power			
Impact of research on chemical-biological warfare agents on America's foreign and				capacity R Black masterbatch plant planned by	Dec	3	23	Oil of mustard (allyl isothiocyanate) additive stops youngsters from shifting			
defense policies will came under				Cabot Belgium R	Dec	3	23	glue N	July	26	51
scrutiny N	July	5	23	Butadiene see also Butodiene				Pipeline safety see Piping			
Israeli fiber researcher, M. Lewin, aids J.P. Stevens during 8-month working				Butyl liner for man-made Hawaiian lake Chloroprene rubber buildup in Japan R	Nov	26	126	Poison gas disposal will be according to NAS recommendations N	July	12	25
visit to textile lab	Nov	12	49	Dow planning SBR plant in Australia N	Aug	19	114	Pollution control see Air Pollution,	July	12	63
NASA's Earth Resources Research Data				Elastomer sales leap	Sept	20	40	Water Pollution			
Facility will make data on earth resources collected by satellites				E PDM: Goodrich joint development				Railroads: derailments force safety	Sept	27	14
available to the public	Aug	2	19	program and engineering studies on a commercial plant at Orange, Tex N	Aug	2	39	Swedish Academy of Engineering Sciences	sehr	61	14
				Goodyear Tire & Rubber to expand poly-				says more plastics in packaging poses no			
OSW to support more innovative research,				butadiene plant at Beaumont, Tex N	Sept	27	9	real threat to the environment N	Oct	18	71
OSW to support more innovative research, develop a closer working relationship	Nov	5	35	ICI's Bukaton plant at Wilton Tourida							
OSW to support more innovative research, develop a closer working relationship with industry	Nov	5	35	ICI's Bukaton plant at Wilton, Teeside, England closed down	July	12	29	USDA admits it failed to enforce decision to require a new safety warning on labels			
OSW to support more innovative research, develop a closer working relationship with industry. Protein concentrates made from petroleum: putting "petro-protein" on the				ICI's Bukaton plant at Wilton, Teeside, England closed down N Industrial rubber sales R	July	12 18	29 34	to require a new safety warning on labels of Shell's No-Pest strips N	July	5	23
OSW to support more innovative research, develop a closer working relationship with industry. Protein concentrates made from petroleum: putting "petro-protein" on the table (table)	Aug	2	41	ICI's Bukaton plant at Wilton, Teeside, England closed down	Oct	18	34	to require a new safety warning on labels of Shell's No-Pest strips			
OSW to support more innovative research, develop a closer working relationship with industry. Protein concentrates made from petroleum: putting "petro-protein" on the	Aug	2	41	ICI's Bukaton plant at Wilton, Teeside, England closed down N Industrial rubber sales R	Oct		34	to require a new safety warning on labels of Shell's No-Pest strips N	July Aug	5 23	

	Dec	17	55	Kaiser organizes Kaiser Trading Co. and will enter the international				Liquid carbon dioxide as solvent for ex- tracting flavor and aroma components			
Prices N	Aug	2	28	commodity trading field "on a major scale" N	Aug	0	27	from fruits and fruit juices N Prices N	July Oct	29	105
Submarine tanker may haul oil and sulfur	Oct			marconario teciniique in moving iron		,		Shell doubles capacity of Sulfolane			
out of Canadian Arctic	oct	29	96	ore from Peru to the U.S	Aug	2	39	plant at Stanlow, Cheshire N 1,1,1-trichloroethane — New processes,	Dec	3	20
research pushed by British N	Nov	12	44	Transportation	Sept	20	38	new antismog rules, give new life to old solvent (tables)	Aug	9	30
Scotland				(charts & tables)	Oct	29	59	Somatic hybridization — What happens	Aug	,	30
BP Chemicals' polybutenes installation at Grangemouth, Scotland R	Oct	11	36	St. Lawrence Seaway — CPI traffic: only 5.5% (chart & map)	Aug	23	63	when you cross a sugarbeet with a potato? N	Sept	20	124
Rezoning approval will permit Grampian		**	20	Ships carrying bulk commodities would be	Aug	.,	03	South Africa — Ethylene plant at Sasolburg		20	164
Chemical to erect petrochemical complex at Invergordon, Moray Firth N	Aug	9	24	eligible for government construction and operating subsidies under new maritime				onstream	July	5	34
Selenium - PricesN	July	19	38	proposal N Tennessee-Tombigbee Waterway System:	Nov	5	23	from soybean oil study project N	July	5	43
Selling				push for funds	Nov	12	19	Soybean — Ion exchange may pay off in soybean processing N	Oct	18	72
Chlorinated insecticides fighting to hold	luk.	10		Transit program in trouble	Aug	16 18	39 62	Sovbean Oil - Nylon-9 from soubean oil	oct	10	16
a market (table)	July	12	31	Shipping see also Borges, Railroads, Ships,	oct	10	02	study project N	July	5	43
output study	Nov	26	30	Tankers, Trucks Sicily see Italy							
overseas investment drive - report	_			Silica - Fused silica	July	5	41	Space Technology Apollo 11: chemical fuels used in flight N	July	26	51
(charts & tables)	Dec	10	33 51	Silicates				Apollo 11: For an epic adventure, a key			
How to court the consumer – report Herbert Terry (table)				Diamond Shamrock's anhydrous meta-				Apollo 12: CPI plays a vital role N	July	26	18 134
Kaiser organizes Kaiser Trading Co. and	Aug	16	59	silicate plant in Dallas, Tex R Sodium silicates prices N	Sept Sept	13	18 33	Betadine and sodium hypochlorite help "decontaminate" the returning astro-			
will enter the international commodity	Aun	9	27					nauts N	Aug	2	40
trading field "on a major scale" N Sales growth declining? — Commerce	Aug			Silicon Monsanto's polished silicon slices pro-				NASA's Earth Resources Research Data Facility will make data on earth			
Dept. survey (chart) Soap and synthetic detergent makers	Sept	20	39	duction at St. Peters, Mo., output				resources collected by satellites available to the public N	Aum	•	20
establish a new sales high (table)	Oct	11	27	doubled R Selected types in short supply N	July	19	26 88	Nuclear power may replace chemical	Aug	2	19
West Germany's chemical industry sales zoom	Oct	4	14	Silicones	9		00	power in space exploration rockets N Piezo-electric fluid metering valve:	Aug	16	47
Selling see also Marketing; see also			• •	Dimethyl silicone fluids, emulsions and				"Moon valve" seeks down-to-earth CPI			
specific chemical, commodity etc.				antifoam formulation prices N Prices N	Nov	12	38 76	process control jobs	Aug Oct	29	36 119
Semiconductors				Rhodia is contender for the U.S. silicone				Space exploration will need practical			
Monsanto will build semiconductor materials plant at St. Peters, Mo R	Sept	13	18	market N Thin, strong, unsupported silicone	Aug	23	60	way of regenerating food from metabolic wastes	Sept	20	115
Ti's Sherman, Tex., plant will make single-crystal semiconductor material R	Aug	16	42	rubber membrane will permit the building				Space shuttle vehicles' rocket engine may require tripropellant systems N		27	23
single-crystal semiconductor material R	Aug	10	45	of more compact heart and lung machines N	Oct	29	119		Sept	21	63
Separation				Silver				Spain Anti-air-pollution riots outside Dow's			
Monsanto's J.R. Fair discusses distilla- tion cost comparisons: valve trays vs.				Coinage; efforts to keep 1.5 million troy				titanium oxide plant in Bilbao N Calvo Sotelo petrochemical expansion	Nov	12	43
packings at AIChE meeting (table)	Nov	26	130	oz./week of Treasury silver flowing won't be pressed N	Nov	19	76	in Puertollano N	Sept	20	48
Separation for high-boiling crude oil fractions test: GPC (gel permeation				Government-wide recovery program will retrieve huge amounts of silver from		-		Calvo Sotelo plans benzene plant at Puertollano	Dec	24	39
chromatograph techniques N	Oct	4	47	film and other materials N	Aug	16	47	Etino Quimica considering building		64	
Sewage Treatment				Minting of silver dollars and half-dollars: end is in sight; Nixon Administration				VCM unit at Martorell	Aug	9	24
Allied Chemical: waste treatment is key to modernizing 90-year-old dye plant	Sept	27	29	asks for approval of legislation to	0-1			overseas investment drive - report	Dec	10	
AEC's M. Steinberg outlines a new approach to the problem of treating effluent from		-		mint cupro-nickel coins	Oct	11	33	(charts & tables)	Dec	10	46
municipal sewage plants use a chemo-				Oil Shale milling operations at Keystone Mine in Crested Butte, Colo. begun R Rep. Conte opposes minting silver	Sept	13	18	vinyl chloride monomer and chlorine- caustic soda project at Puertollano N	Aug	9	24
AIChE meeting	Nov	26	129	dollars bearing the likeness of Dwight				IQA's ethylene expansion R	Oct	11	36
Congress opens the public purse to				D. Eisenhower	July	26	25	Lopez de Letona takes over chemical push	Nov	12	29
accelerate river cleanup work (chart) Dow will operate a sewage disposal plant	Nov	26	147	studiedN	Sept		24	Monsanto Iberica petrochemicals complex		30	32
for Cleveland	Aug	30	39	Snowmobile — Polycarbonate market Snyder, Ralph, Jr.: The author of a plan to	Dec	24	68	at Tarragona	Aug		
cool water: Congress says "Now"				establish a national "oil bank" promoted				chemicals N Phosphatic fertilizer project for Huelva	Nov	19	114
(table) Lime in treatment of raw sewage —	Dec	17	20	to Deputy Administrator of OIA N	Aug	30	19	possible	July	12	33
Ontario Water Resources Commission test program	Oct	4	48	Soop & Detergent Assn. Soap and synthetic detergent makers				VCM unit at Martorell	Aug	9	24
Nationwide chain of 20 waste-treatment	001	,	40	establish a new sales high (table)	Oct	11	27	UEE merges with Rio Tinto: Spain's biggest corporate marriage July 19-48 N	July	26	27
plants, to process industrial wastes, now under construction	Nov	5	42	Will oppose Wisconsin bill that would ban "sale or use of detergents containing				Spanish Sahara - Morocco's King Hassan	,	4.0	
N.Y.'s solid waste into fertilizer plant N	Sept	20	123	phosphorus" N	Sept	6	33	renews his nation's claim to phosphate deposits	July	12	33
No one-shot answer to pollution – Viewpoint	Dec	17	5	Soaps				Stabilizers - Vinyl plastic stabilizer			
Reverse-osmosis and ultrafiltration moving out of the laboratory and into				Sales boom (table)	Oct	11	27	pricesN	Aug	23	59
commercial use: Wide markets for thin				Sal J. Silvis (charts, tables, flowsheets)				Standardization Air-quality criteria will be published			
membranes (chart)	Aug	30	33	Pt.1 Sept 20-67, Pt.2	Oct	18	79	once a year reports NAPCA N	Dec	3	19
algae, char, hydrolysis: Z-M, Clarke and Trans Union processes (table, flowsheet)	Sant	13	63	Soda Ash FMC will expand its Green River, Wyo.,				Auto exhaust — interim emission standards will be published N	Dec	3	19
- letters Oct 11-5	Sept	26	12	deposits	Dec	24	25	FDA issues new regulations describing scientific criteria for determining the			
Waste-treatment plant appropriations may be increased N	July	5	24	Prices N July 5-31 N Process for treating waste waters from	July	12	29	acceptability of medical evidence of			
	,			Solvay process soda ash plants	Nov	12	42	a drug's effectiveness	Sept	27	23
Shale Oil Great Canadian Oil Sands reports				Sodium				Metric system: "typical comment" from the Montreal meeting — letter	Dec	10	5
production	Nov	19	44	Metallic sodium prices N Prices N	Nov	19 26	75 119	Nixon Administration says federal govern- ment should set and police health and			
to "give away" 10,000 acres of the				Sodium Bifluoride - Prices N	July			safety standards for most U.S. manu- facturing plants N	Aug	9	12
richest federal shale deposits in Colorado	Oct	18	33	Sodium dihydro-bis(2-methoxyethoxy)				Noise: new pressure on plants	Dec	3	17
Shampoo - Rugs: additives cause carpet	001		"	aluminate new, safe, organometallic hydride N	Sept	20	123	Sen. Kennedy introduces bill that would set standards for emulsifiers and dis-			
shampoos to dry to a brittle residue that can be swept off, leaves no dirt-attracting				Sodium Hypochlorite — Bactericides help "decontaminate" the returning				persants used to clean up oil spills N Standards for control center design dis-	Sept	27	23
film	July			astronauts	Aug	2	40	cussed at ISA meeting	Nov	5	33
Shipments of industrial chemicals	. Nov	12	22	Sodium Metasilicate - Prices N	July	5	31	Summary of water quality standards set by all 50 states (tables)	Oct	29	80
Shipping				Sodium Nitrilotriacetate – NTA crystals prices N	Oct	11	42	Stanford Research Institute - Joint venture	001	6,7	00
Du Pont files cargo damage suit against Blue Star Line and Southern Towing . N	Sept	20	34	Sodium Sesquicarbonate - Prices N	July	5	31	Jonathan Development formed in an ex- perimental home-building program N	July	5	10
French ports of La Havre and Marseilles- Fos slated for face lifting and industry				Sodium Silicate — Prices N Sept 6-33 N	Nov	19	75	, and the same of	J	-	40
buildup	Dec	24	26	Sodium Tripopyphosphate — Israeli petrochemical complex	Oct	4	23	Statistical Aids			
Hazardous materials: proposal to require immediate reporting of accidents				Soldering — Solid mask C	Nov	19	104	Commerce Dept. has updated its input- output study	Nov	26	30
involving transportation of hazardous	Nov	12	27	Solvents				SIC gets a face-lifting U.S. input/output data — CPI markets:	July	5	29
materials published N Hazardous materials: task force on	1400	12	21	N Sept 20-109 N	Dec	17	55	rapid growth, sweeping change (tables).	Dec	3	39
transportation of hazardous materials to recommend organizational changes				Dow plans chlorine-caustic solvents				Steam — UOP obtains rights to Japanese town gas process, MRG N	Nov	19	89
created	Nov	5	23	(N Newsletter, R Roundup, C Count		29	26	,		.,	٠,
				in newsietter. R Rounday. C Count	wo w II/						

8			
"Conversion-rolled" titanium-clad steel plate is Du Pont's top new contender for use in the fabrication of process			
vessels Eastern Stainless will use Linde's new process for making stainless; will be put to work in modernization of Baltimore	Dec	17	25
mill N	Nov	5	36
	Sept Dec	27 17	58 79
plan steel plant in Arizona using the	Sept	13	18
Sterilization by a combination of heat	Sept Oct		23 56
Steroids Prices N Sarsasapogenin C		30	29 79
Stackpiles			
Cadmium: bill to release stockpiled cad- mium introduced N	Aug Dec	2 3	19 19
approved N	July	19	31
Storage - Controlled oxygen atmosphere for food preservation	July	26	28
chemicals along the Mississippi Gulf Coast	Aug	30	14
Streptomycin see Antibiotics Strontium — Kaiser acquires a big celestite ore deposit on N. Scotia's Cape Breton: will put up a preconcentration plant at the mine site and a processing plant at Point Edward, new uses are catching		1	
0/1 N	Nov	5	36
Strontium Carbonate — Ferrite-grade strontium carbonate	Nov	26	143
BASF complex in Beaufort County, S.C Foster Grant expands monostyrene	Oct	11	27
capacity at Baton Rouge, La., plant R	Dec	10	22
Gulf's plant will be built at Faustina works near Donaldsonville, La N Output for first six months of '69 N ROW's unit at Wesseling onstream R Styrene see also Polystyrene	Dec Aug Oct	17 30 11	17 30 36
Styrene-butadiene – Borden will triple its styrene-butadiene latex production capacity N	Dec	3	10
Sudan – Nitrogen plant recommended	July	5	34
Amsterdam court orders Centrale Suiker Maatschappij and Suikerunie U.A. to stop advertising "unfounded, destruc- tive criticism" of cyclamates N	Aun	30	39
Process for making sugar esters N Sugar derivatives C United Kingdom study shows no signifi- cant correlation between sugar con-	Aug Sept Aug	13	67
sumption and heart disease N Sulfates	Aug	30	39
Richardson's lauryl sulfate plant at Chicago capacity doubled N Sulfate of potash prices N Sulfonates — Esso Research licenses	Dec Oct	10 11	54 42
radiation-induced process for making linear sodium alkane sulfonate to Hodogaya Chemical, Japan N	Dec	10	67
Sulfur Allied studies sulfur removal from stack gases by direct reduction N California Time Petroleum plans sulfur-	Aug	16	102
extraction plant on Navarro County, Texas, property	Oct	18	26
Elcor's sulfur-from-gypsum plant at Rock house, Tex., having startup	Nov	19	76
troubles N July 12-43 N Exports are helping to keep the	Oct	29	25
domestic inventories in line N GRC's efforts to sell Mexican sulfur operations are stymied N Gulf Resources will sell Mexican	Nov	10	29
Guif Resources will sell Mexican operations to Inversiones Azufreras, including terminal at Tampa, Fla N Inventories N	Aug	16	34
Iran takes a petrochemical tack (map) Leasing: new rules for oil, gas and suffur leasing on outer continental	Sept		139
Mexican government "may be thinking of confiscation" of Gulf Resources &	July		24
Chemical's properties, says Allen Mobil's C. Pratt projects world	-	19	
sulfur demand N Offshore Texas and Louisiana lease sales will resume under stricter regulations . N	Sept		23

Phelan closing its three-year-old mining operation at Nash Dome, Tex N Prices war developing in world markets. N Prices N July 19-37	Nov Sept	12 27 12	37 43
Submarine tanker may hauf oil and sulfur	Nov	26	37 27
Suffur from stack gas: Which process is	Oct	29	96
best? Sulfuric acid from stack gas see also Sulfuric Acid	July	5	46
What next for the big sulfur producers? World sulfur: plenty now, more on the way	July Oct	26	17
Sulfuric Acid ARCO dedicates Fort Madison, Ia., ferti-			
Bayer switches to elemental sulfur (from	Oct	11	27
pyrites) for proposed plant at Antwerp N Bunker Hill's plant will be designed and built by Leonard Construction N	Sept Sept	27	43 33
Bunker Hill plans unit at Kellogg Lead smelter	July	5	19
Canadian users are feeling the impact of the Inco strike	Aug	16	87
Shreveport, La. R July 5-19 N Prices N July 12-29 N Sulfuric acid from stack gas: more	July	19	18 37
developments N	Dec	3	46
Teflon-lined furnace for recovery of sulfuric acid from sludge installed in American Oil's Texas City refinery N U.S. Industrial Chemicals expanding its	Sept	6	48
Desoto, Kan., plant R	July	12	21
Sulfur Dioxide — New way to cut sulfur dioxide emission from sulfuric plants to be installed at sulfuric plant in	1.1.	***	
Paulsboro, N.J. N Sun Tan Lotions – Para-aminobenzoic acid employed in an ethyl alcohol solution: new way to use an old	July	19	52
solution: new way to use an old compound to protect skin against sun N	July	5	43
Surfections GAF's Igepal label nonionic surfactants N	Aug	16	88
Prices	Sept	13	54
Swaden Europe's chemical giants set for home, overseas investment drive – report			
(charts & tables)	Dec	10	46
Nation's pharmacies will be nationalized on Jan 1, '71	Oct	18	66
"low-sudsing laundry" detergents N Swedish Assn. of Engineers running a contest to find out what you can do with the waste heat from a nuclear reactor. N	Oct	29	70
Uddcomb Sweden AB, to make reactor	July	19	51
components for CP1	Dec	17	40
Vietnam N Swedish Academy of Engineering Sciences —	Oct	18	66
More plastics in packaging poses no real threat to the environment N Swedish Assn. of Engineers — Contest to	Oct	18	71
find out what you can do with the waste heat from a nuclear reactor N Sweet, E. Roy of Ocean Systems: Ex-singer	Dec	17	70
now ponders ocean floor	July	26	61
Sweeteners Cyclamates' ban sparks race for substi-			
U.S. Council for Special Foods formed.	Oct Oct	29 29	26 30
Ban on sweetener sours flavor outlook too (table) Last week's developments	Nov	12	16
Government's ban on sales of canned fruits and vegetables containing cycla-		_	-
mates delayed to coordinate with Canadian government plans	Nov	26	22
public relations blunder in the handling of its research into the possible danger of cyclamates in artificial sweeteners Nutrition conference clashes over "GRAS"			
Nutrition conference clashes over 'GRAS' charges	Oct	18	31
Subsected			
Switzerland Chemical imports and exports	July	5	35
Chamical impacts and avants as	July Sept	5	35 10
Chemical imports and exports N Ciba and Geigy merger may be contingent on a U.S. Justice Dept. ruling N Europe's chemical giants set for home, overseas investment drive — report			
Chemical imports and exports N Clba and Geigy merger may be contingent on a U.S. Justice Dept. ruling N Europe's chemical giants set for home, overseas investment drive — report	Sept	13	10
Chemical imports and exports. Ciba and Gelgy merger may be contingent on a U.S. Justice Dept. ruling. N Europe's chemical gliants set for home, overseas investment drive – report (charts & tables). Syntheses – Synthesis for a new and unusual antibiotic called phosphonomycin, effective against bacteria in animals reported. N Synthesis Orannic Chemical Meanfactures.	Sept	13	10
Chemical imports and exports Cita and Getyp merger may be contingent on a U.S. Justice Dept. ruling N Europe's chemical glants set for home, overseas investment drive - report charts & tables) Syntheses - Synthesis for a new and unusual antibiotic called phosphono- mycin, effective against bacteria in	Sept	13	10

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Taiwan – PVC plant at Singapore planned	July	5	34
Tankers	July	,	34
Cryogenic tankers will move natural gas	Aug	23	59
The Descarters, cryogenic tanker will deliver LNG to the U.S	July	5	29
The Descarters, cryogenic tanker will deliver LNG to the U.S. Du Pont files cargo damage suit against Blue Star Line and Southern Towing. N	Sept	20	34
	Aug	2	39
ore from Peru to the U.S. N S.S. Manhattan expected to arrive in Point Barrow, Alaska, early next week N S.S. Manhattan opened Northwest Passage to oil tankers, and opened new oil spill debate	Sept	20	34
Passage to oil tankers, and opened new oil spill debate. Ships carrying bulk commodities would be eligible for government construction and operating subsidies under new maritime	Nov	19	65
proposalN	Nov	5	23
	Oct	29	96 33
anning - Unemicals give leather new	Aug	23	67
Tantalum - Canada's first mill is	Sept	20	112
Tantalum Oxide - Prices N	Oct	4	37
	July	5	34
Tariffs			
ASP: BASF acquires a 10% interest in Wyandotte; one way to beat the ASP			
System. N ASP: MCA meeting highlighted by clash over proposed ASP repeal	Aug	23	28
determination to back ASP; finds hint	Dec	3	16
of more oil, textile quotas won't alter chemical position.	July	5	17
ASP: Nixon Administration's trade bill calls for repeal of ASP; no provisions for nontariff barriers	Oct	18	32
ASP supporters get boost from Sen. Hollings at SOCMA meetingN	Dec	10	13
Argentina's fertilizer industry expects	July	5	31
A	Sept	13	29
Argentine petrochemical decree sets, new and in some cases, lower tariffs (table). Benzenoid chemical imports into the U.S. value jumped 30% last year	July	26	38
Chemical industry is "strongly opposed" to the repeal of duty drawback, declares Christopher of MCA	Aug	16	33
CED urges an end to all nontariff trade barriers N	Sept	13	23
Congress waits for Presidential push: Taxes, tax reform are now the dominant issues, but battles are brewing on			
trade, aid, pollution Dumping: Treasury Dept. says Canada, West Germany and France are dumping potassium chloride in the U.S	July	12	16
potassium chloride in the U.S N EEC nontariff barriers: What can the U.S.	Aug	30	19
as special vade representative. No AST	Dec	10	16
stand National Foreign Trade Convention: Stans favors U.S. adoption of a value- added tax; Percy calling for Nixon Round' of negotiations to lessen im- pact of imports. Potash dumping N Sept 13-23, N Nov 13-23,	July	5	18
pact of imports	Nov	26	26
Tariff Commission proposals to eliminate	Dec	3	35
opposed by Oxy N Trade bill: No surprises in trade bill — nor in chemicals' criticism.	Aug		14
Trade policy has low priority at the White	Nov		24
U.S. East bloc trade backers heartened	Sept	13	23
by Nixon's Rumanian visit (table) U.S. to delay some chemical cuts We've given up the quo; it's time we not	Aug	24	26
We've given up the quo, it's time we got the quid — Viewpoint White House Task Force on Oil Imports drafting final details of a new tariff	Nov	26	5
White House Task Force suggests tariff	Dec	17	31
structure for oil imports	Dec	3	14
Administration proposes increase in			
federal fees on trucks and a fuel tax on barge lines	Aug	16	47
Comprehensive tax reform package N Comprehensive tax reform package N Congress' agenda: trade, aid and pollution (table). Congress waits for Presidential push:	Dec	24	20
Congress waits for Presidential push: taxes and tax reform are now the dominant issues but battles are brewing on trade,	500	24	20
aid, pollution	July Aug	12	16 15
Depletion cut: maybe 27%. Latest data on state franchise, corporate income, sales, vehicle fuel and severance taxes, and an index to the incentiues of each offers to be incertifications.	Aug	-	13
tives of each offers to business (Lable)	Oct	29	68

Nixon 'cuts' tax cuts	Sept	13	14	Theft — Nickel stolen from Whitehead Metals' plant	Nov	19	44	U.S. Bureau of Mines Computer program to evaluate new			
Senate versions (table)	Nov	12	20	Tiles - Wood-plastic tiles		19		Computer program to evaluate new chemical processes available N Dec 3-46 N	Dec	10	27
offered to Congress by Sen. Miller N	July	26	25	Tin – Catalysts for making urethane patent dispute N	Nov	12	44	High-strength plastics have enormous	Dec	10	21
Dil depletion allowances N Plant sites '69 report. J.M. Winton	Dec	10	27	Tires				potential for use in mining and tunnel construction	Dec	17	31
(charts & tables)	Oct	29	59	General Tire will pay the government \$50,000 to settle civil claims for alleged				Separation for high-boiling crude oil			-
Professionals can now take advantage of corporate tax laws	Oct	11	68	violations of the national traffic and				fractions test: gel permeation chromato- graph technique	Oct	4	47
7% tax credit: bill to repeal tax could kill tax reform this year	Sept	27	10	motor vehicle safety act N Glass-fiber markets are booming, thanks	Nov	5	23	U.S. Council for Special Foods - Formed:			
Tax-free status of municipal bonds being				mainly to soaring use in tires N	Dec	10	53	prime function is to present facts on dietary products at FDA hearings on			
eyed again N Tax reform is being whittled down to	July	19	18	Rayon - Polyester battle for tire market: Ford abandons the PEG-BB tire N	Oct	11	41	sweeteners N	Oct .	29	26
size by the Senate Finance Committee N	Oct	18	40	Tire and tube prices being boosted N	July	5	32	U.S. Dept. of Agriculture Admits it failed to enforce decision to			
0% surcharge: Senate goes its own way on 10% income surcharge extension	July	19	21	Titanium				require a new safety warning on labels			
0% surtax gets limited extension N	Aug Sept	13	21	Autocoast Ti-22, racer built with weight- saving metals; significant for producers				of Shell's No-Pest strips N	July	5	2
exas' taxes rise	Oct	18	62	of titanium and aluminum	Oct	18	61	Combination dip shows promise in controlling postharvest rot N	July	19	57
West German 4% export tax was temporarily shelved N	Oct	18	65	"Conversion-rolled" titanium-clad steel plate is Du Pont's top new contender				DDT — New restrictions on use of DDT are included in recommendations being			
chnical Assn. of Pulp & Paper Industry				for use in the fabrication of process vessels	Dec	17	25	circulated privately within the Agricul-			
ingineering Conference (24th): Paper-				Corrosion of titanium in sea-water desalt-				ture Dept	Aug	2	1
makers try new technology in battle to trim operating costs	Sept	27	52	ing plants will be studied	Aug	23 18	73 58	effects	July	19	2
xygen debuts in the pulp mill: first-stage bleaching of kraft pulp with high-pressure			-	Japan and U.S. will trade titanium				control N	Aug	9	3
oxygen and steam may replace three con-				processing technology N National Lead pollution control program	Aug	23	74	on exchange may pay off in soybean processing N	Oct	18	7
ventional steps using chlorine and hypo- chlorites (flowsheet)	Oct	18	103	at titanium dioxide plant in Sayreville, N.J N	Dec	24	17	Leather: problems of cleaning leather have been solved, in laboratory, at			•
	OCI	10	103	Tubing prices N	Oct	24 18	57	least N	July	12	4
flon elting, called Tufbestos: impregnating				Titanium Dioxide				Liquid carbon dioxide as solvent for ex- tracting flavor and aroma components			
woven asbestos with Teflon to form a	A	14	100	National Lead opens plant at Nordenham.	Sent	13	29	from fruits and fruit juices N	July	5	4
eflon-lined furnace for recovery of sul-	Aug	19	108	Germany R Pigment: PPG is out with a fourth		13		Membranes research	Aug Sept	30 13	6
uric acid from sludge installed in American Oil's Texas City refinery N	Sept	6	48	grade of TO ₂ pigment N Spain: Anti-air-pollution riots outside	Nov	19	76	Pesticides Regulation Div. described as "an almost incredible failure" N	Dec	2	1
	25hr	0	40	Dow's plant in Bilbao, N	Nov	12	43	Preventive for foot-and-mouth disease	_	,	
nnessee Valley Authority nnual fertilizer production and marketing				TNT — Du Pont gets a contract from the Army to reactivate a TNT plant at				tested in mice	Dec	3	4
onference: Fertilizer makers are told	0-4	,,	45	Newport, Ind R	Aug	16	42	with pesticides	Nov	5	1
hey need more marketing muscle (chart) rguson contract for urea solution unit R	July	11	45	Toluene – Output for first six months of	Aug	30	29	fusion of plants N	Sept	20	12
reguson contract for urea solution unit R Fertilizer Trends, 1969" – prospects for fertilizer growth in the U.S.: long-	-	-		Toluene Diisocyanote			-				
term good; near-term, dim N	Nov	26	119	Belgium plant planned by Shell and				CPI shipments rise	Nov	12	
iquid fertilizer marketing cost study N lans to sell about \$100 million worth	Oct	4	38	Bayer N Prices N	Dec July	19	20 37	Issuance of export licenses for nickel	Indu		
of power bonds in competitive bidding R	Nov	5	21	Tolyltriazole - Sherwin Williams Chemicals				discontinued	July	26	
ack, Archie, discusses problems of recovering stack-gas sulfur	July	5	46	building plant in Cincinnati, O R	Sept	27	18	Output Structure of the U.S. Economy: 1963" (tables)	Dec	3	
orld's largest single-belt conveyor				Training				Office of State Technical Services is		-	
system will be tied into TVA project. N ephthalic — Amoco's plant at Decatur,	Dec	10	68	Chemical companies' retirees launch new careers in teaching	Aug	40	43	fighting for its life	Dec July	24 26	
Ala., will be one of the world's largest N	Aug	16	33	Chemical plant operators take college course in fire fighting	Sept	13	59	Updating input-output study	Nov	26	
raethyl Lead - Prices N	July	26	37	How to hire minorities	Sept	20	40				
ramethyl Lead - Prices N	July	26	37	Transportation - Transit program in trouble Trichlorobenzene - Prices	Aug	16	39 31	U.S. Dept. of Health, Education & Welfare			
cas A&M University — Chemical plant operators take college course in fire				1,1,1-trichloroethane - New processes,	July	,	34	Bureau of Solid Waste Management — Packaging: the problem of disposal			
fighting	Sept	13	59	new antismog rules, give new life to old solvent (tables)	Aug	9	30	(charts & table)	Oct	4	
xtiles				Trimethylolpropane - Celanese increases				ed to uses "essential" to the preserva-			
orduroy finish	Aug	16	110	capacity at Bishop, Tex. N Sept 20-34	Sept	20	43	tion of human health or welfare, says Finch	Nov	19	
Tyox, hydrogen oxide analyzer promise solutions to textile-bleaching problems	July		20	Trucks - ICC grants Middlewest Motor Freight Bureau 6% blanket increase in				Nationwide survey of community water		-	
xports: Another try for textile curbs;	July	5	39	freight rates N	Sept	13	54	supply systems indicates that many of them contain more contamination than			
Japanese delegation will discuss a curb on textile exports to the U.S	Aug	16	40	Tungsten – GSA sale of 828,500 lbs of tungsten concentrates N	Dec	17	31	is permitted under drinking water stand- ards of U.S. Public Health Service N	Sept	20	
TC says synthetic fiber manufacturers	Aug		40	tangaten sonetimates	500	.,	**	Secretary Finch accuses FDA of making	Jehr	20	
may be violating restraint of trade	Aug	2	19					a public relations blunder in the handi- ing of its research into the possible			
iber inventories rise	Oct	11	28	U				danger of cyclamates in artificial	Oct	10	
J.P. Stevens during 8-month working				Hitraconice Hitraconic Colution Augi				U.S. Dept. of Housing & Urban Development	Oct	10	
visit to textile lab	Nov	12	49	Ultrasonics — Ultrasonic Solution Analyzer to measure solids contents of solutions				- Nearly 600 firms have bid for "opera- tion Breakthrough" contracts N	Oct	4	
panese delegation hears of the importance of textiles to the U.S.				and suspensions N	July	5	44	con breaking contracts	oct	4	
economy N	Oct	4	19	Ultraviolet				U.S. Dept. of the Interior			
apanese resistance to U.S. demands for fewer textile imports appears to be				Stack gas monitors: how to keep watch on what goes up the stack (table)	Aug	2	31	In war on pollution, who'll lead way — industry or U.S.?	Nov	5	
crumbling N	Nov		23	Ultraviolet fire detector	Aug	23	79	Process for treating waste waters from		12	
ylon-4 at an advanced research stage. Nubricant	Oct		120	Ultraviolet Absorbers — Cyanamid specialty chemicals plant at Rotterdam complex	Oct	11	28	Solvay process soda ash plants Water resources in Alaska's oil-rich North	Nov	12	
ajor English textile companies are								Slope area should be assessed R	Nov	12	
barred from merging; acquisition of English companies by foreigners also				Underwater Mining Economic assessment of the manganese				U.S. Dept. of Labor — Van Atta: Government has switched from 'pious hope' to stiff			
ruled out	July	26	13	at the bottom of Lake Michigan being undertaken	Oct	4	48	sound limits	Dec	3	
structure to put more emphasis on		17	21	Gulf of Mexico: tougher regulation for				U.S. Dept. of Transportation			
market orientation	Dec	17	26	oil, gas and sulfur drilling N Offshore Texas and Louisiana lease	Sept	6	10	Derailments force rail safety overhaul	Sept	27	
laundering and drycleaning on textile products proposed N	Nov	19	75	sales will resume under stricter	Cont		22	Guidelines for hazardous material in pipelines	Oct	18	
cott Paper's graft polymerization tech-	HOV	-		regulations	Sept		23	Proposal to require immediate reporting of			
niques needs a new developer N tevens plans textile chemicals unit at	July	26	52	out of Canadian Arctic	Oct	29	96	accidents involving transportation of hazardous materials published N	Nov	12	
Piedmont, S.C R	July	, 5	19	United Nations – Desalination is costly,				University College of London - Enzyme	Mari	10	
Stretch yarns patent: Leesona asks court to decide relative rights of				study shows N	Sept	6	47	research pushed N University of California — Case for DDT	Nov	12	
company and 64 licensees	Oct	29	89	U.S. Army				and the need for postponing a general	Luke	10	
synthetic fibers outlook: Slower growth, slimmer profits; trend to greater involve-				Phosgene traffic halted by USDOT Sept 20-38	Sept	27	14	ban on it made by Ray Smith N University of Mayrland — Researchers out-	July	12	
2 Hummer brotte?' freife to diegrei unaniae.	Nov	56	123	Poison gas disposal will be according to				line the characteristics and propose a	Inhe	12	
ment in the textile industry (tables)				NAS recommendations N	July	12	25	structure for "anomalous" water N University of Texas — Odessa, Tex., to	July	12	
ment in the textile industry (tables)				U.S. Army Office of Research - Para-							
ment in the textile industry (tables) Theiland Mitsui group wants to participate in	Sep	t 27	7 27	U.S. Army Office of Research - Para- aminobenzoic acid employed in an ethyl				be fount of learning or fount of oil?	Nov	5	
ment in the textile industry (tables) 'hoiland	Sep		7 27	U.S. Army Office of Research — Para- aminobenzoic acid employed in an ethyl alcohol solution: new way to use an old compound to protect skin against sun N	July	5	43		Nov Sept	27	

University of Wisconsin - What happens				Viewpoint - H.C.E. Johnson - July 5-5,				Chicago files antipollution suits against			
when you cross a sugarbeet with a potato? Study on somatic hybridization or nuclear fusion of plants N	Cant	30	334	Viewpoint – H.C.E. Johnson – July 5-5, July 12-5, (letters Aug 9-5, Sept 13-4) Aug 2-5, Nov 5-5, Nov 12-5, Nov 26-5, Dec 17-5,	Dec	24	5	four companies	Oct	11	55
Uranium	Sept	20	124	Vinyl - Plastic stabilizer prices N	Aug	23	59	Steel for polluting the Calumet Basin N	Sept	27	58
American-design nuclear power plants,				Vinyl Acetete				Congress' agenda: trade, aid and pollu- tion (table)	Dec	24	20
which use enriched uranium, are better than plants using natural uranium as their fuel says Electricite de France's				BP will expand capacity at Hull and Bagian Bay, EnglandN National Distillers claims Celanese	Oct	29	49	Congress opens the public purse to accelerate river cleanup work (chart) Congress waits for Presidential push:	Nov	26	147
Marcel Boiteaux. AEC to begin operating three gaseous	Nov	5	33	infringed its VAM patent	Nov	19	39	taxes and tax reform are now the domin- ant issues, but battles are brewing on			
diffusion plants for uranium enrichment as a separate commercial enterprise	Non	10	43	vinyl acetate homopolymers and copoly- mers move into the pilot plantN	Dec	10	67	trade, aid, pollution	July	12	16
Continental Oil's complex in southern	Nov	19	41	Vinyl Chloride see Polyvinyl Chloride		-		voyage buoys hopes	Sept	27	30
Texas R Gas centrifuge to enrich uranium is	Dec	24	26	Vinyl Chloride Monomer see Monomers				Detergent phosphates ban opposed by government and industry	Dec	24	23
moving forward N German firms will participate in the	Nov	26	133	W				Electric Reduction resumes output at phosphorus plant in Newfoundland			
uranium enrichment centrifuge project N Government corporation to own gaseous	Dec	10	68	W				July 12-37. N Fiber Industries' polyester fiber plant near Durham, N.C., plans shelved. N	July	19	51
diffusion plants now operated by AEC is the latest plan	July	19	31	Wages see Labor, Management, Manpower,				near Durham, N.C., plans shelvedN Fluoride ion analyzerC Ford program "to minimize pollution from	Aug Nov	16 19	34 97
Humble Oil buying 9,00 acres in Fremont County, Wyo., from General				Technical				its products and its plants in the short- est possible time"	Don	17	22
Nuclear	July	5	9	Wosto Disposal Allied Chemical: waste treatment is key				Funds for waste-treatment plants - Clear,	Dec	17	23
enrichment in Japan	July	19	51	to modernizing 90-year-old dye plant Chicago files antipollution suits against	Sept	27	29	Funds for waste-treatment plants — Clear, cool water: Congress says "Now" (table) Goodrich's new effluent-treatment system	Dec	17	20
Engineers for uranium mill near Wellpinit, Wash R	July	5	19	four companies	Oct	11	55	for PVC plant near Pedricktown, N.J In war on pollution, who'll lead way -	Oct	18	105
Uranium Oxide - Australia AEC pilot	July	,	4,	accelerate river cleanup work (chart) Deep-well disposal of phenol, formaldehyde	Nov	26	147	industry or U.S.? Nalco and Hercules enter partnerships to	Nov	5	41
plant to hurry the manufacture of uranium oxide fuel pellets for reactor N	Sept	27	58	and synthetic resins waste researching at Reichhold's Tuscaloosa, Ala., plant N	Nov	19	90	supply chemicals and plants to ease European industries' pressing water			
Ures				Deep wells are catching on as a way of disposing of chemical wastes		2	40	pollution woes	Nov Dec	12 10	41
BASF plant at Ludwigshafen R Borden boosts urea and phenolic resin	Dec	17	40	Dow will operate a sewage disposal plant	Aug			Nationwide chain of 20 waste-treatment	Dec	10	,
capacity at Freemont, Calif., Kent, Wash., and Springfield, Ore N	Aug	30	9	for Cleveland	Aug	30	39	plants, to process industrial wastes, now under construction	Nov	5	42
Coppe-Rust will build its third plant in				cool water: Congress says "Now" (table)	Dec	17	20	Nixon Administration plans major shifts in federal pollution control program N	Dec	24	31
Rumania N Ferguson contract from TVA for urea	July	12	33	Goodrich's new effluent-treatment system for PVC plant near Pedricktown, N.J	Oct	18	105	No one-shot answer to pollution - View- point	Dec	17	5
solution unit	July	12	21	In war on pollution, who'll lead way,	Nov	5	41	Oil spills Cellulated glass beads, tossed onto oil			
(chart) IVP orders urea plant from Snam	July	19	59	industry or U.S.?		-		spills, could be the answer to some spill control problems	Dec	17	70
Progetti N Japan Gas-Chemical abandons plans to	Sept	6	24	now under construction	Nov	5	42	Kennedy, Sen. introduces bill that would set standards for emulsifiers			1-
supply Communist China with urea fertilizer from Alaska N	Nov	12	28	bags throughout the city for garbage disposalN	Nov		34	and dispersants used to clean up oil spillsN	Sept	27	23
Prices N "Total Recycle D Process" offered by	July	19	37	N.Y.'s solid waste into fertilizer plant N	Sept	20	123	New dispersant to be used on oil slicks, called BP1100 N	Oct	29	119
Mitsui Toatsu Chemicals N Vistron will use U.S. technology for its	Sept	27	58	No one-shot answer to pollution Viewpoint	Dec	17	5	President's Panel on Oil Spills finds	oct	27	447
plant at Lima, O N	Aug	2	39	Packaging – the problem of disposal (charts & table)	Oct	4	41	present government and industry action to cope with oil spills is inadequate. N	Oct	29	119
Uretkane				Submarine voyage buoys hopes	Sept	27	30	Still no cure for spill ills: new idea at oil spill meeting; series of 'hover-			
Automobiles - Dodge uses thin urethane foam protective cover over an unchromed				Piping waste 100 miles to sea – quick "save" for Delaware basin?	July	19	65	craft' to contain oil in bubble barrier What's key to oil cleanups? White House panel says U.S. can't cope	Dec	24 19	65
bumper BASF acquires a license to use a Kaiser	. Sept	6	13	letters Aug 30-5, Polyelectrolytes for treating waste -	Sept	27	4	White House panel says U.S. can't cope with major oil spills	Oct	29	31 28
process for the synthesis of methylene-	tulu		25	letter	July	26	5	Piping waste 100 miles to sea – quick	Nov	26	28
di-p-phenylene diisocyanate (MPI)N Goodyear charges Diamond Shamrock and	July	5	35	unit	Nov	19	44	save" for Delaware basin?	July Sept	19 27	65
Mobay infringing its urethane patents N Liquid urethane foam systems prices . N	Oct	18	71 44	ing out of the laboratory and into com- mercial use: Wide markets for thin mem-				Plans to control pollution of the nation's coastal areas may be delayed N			27
Olin liquid urethane foam system, Polysystems, products prices N	Oct	4	38	branes (chart)	Aug	30	33	Plant sites '69 report, J.M. Winton (charts & tables)	Dec Oct	10	59
Olin's urethane foam rug underlay materials plant in Upper Manungie,				algae, char, hydrolysis: Z-M, Clark, and				Reichhold's plant to get waste-treatment			
Pa. R Paragon Design to make and sell urethane	Aug	23	22	Trans Union processes (table, flow-sheet)	Sept	13	63 12	unit R Rhine River fish kill blamed on barge's	Nov	19	44
components	Dec	24	26	maste separator,	Nov	26	101	spillage of endosulfan insecticide Officials still unable to explain the	July	5	18
dispute	Nov	12	44	Zwach bill to permit states to set more stringent rules on the discharge of				Senate approves a strict water pollution	July	19	52
roller coating	Aug	23	68	radioactive wastes than those imposed by AEC introduced	July	12	25	Control bill	Oct	18	40
wins Class A rating for spread-of-flame		20	20					Tanker Torrey Carryon oil spillage case	Oct	29	80
resistance	Nov	12	38	Waste Treatment Chemical plant problems get low priority				settled N Three new, low-cost waste treatments use	Nov	19	33
second-generation products and untapped markets (table)	Dec	3	29	in U.S. pollution studies (chart) Viable solution – dynamically formed	Oct	29	111	algae, char, hidrolysis: Z-M, Clarke and Trans Union processes (table, flow-			
Utah — Great Salt Lake: new home for magnesium and chemicals (map)	Sept	6	15	membranes – letter	July	12	8	sheet)	Sept Oct	13 11	63
•				Waste Utilization AEC's Blanco describes process for mixing				Waste-treatment plant appropriations may be increasedN		5	24
				industrial and municipal waste residues into asphalt or plastic at AICE meeting.	Sept	6	43	Water quality degraded by detergent	July		
V				Contract to investigate activated carbon for reclaiming water from pulp mill	зері	0	43	phosphates, how much?	Oct	29	106
				effluent awarded to St. Regis Pager N	July	5	44	Annual (42nd) conference	Oct	18	105
Vaccines see Drugs				Desaiting equipment may make possible a billion-dollar business in by-products		••		Water Supply			
Valves	foot	20	303	of industrial wastes	Nov Sept	12 20	123	Air-cooler sales begin upswing as fresh- water reserves shrink	July	5	22
Butterfly valves	Nov	26	101	Protein from cellulose waste products Water - "Anomalous" (or ortho or poly)	Nov	12	49	Desalting see Water Treatment Hawaii: butyl liner for man-made lake	Nov	26	126
Gate-valve tool	Aug Sept	16 20	110	water is winning more attention N	July	12	43	Nationwide survey of community water supply systems indicates that many of			
"Moon valve" seeks down-to-earth			-	Weter Pollution Allied Chemical: waste treatment is key				them contain more contamination than is permitted under the drinking water			
CPI process control jobs	July	5	36 41	to modernizing 90-year-old dye plant	Sept Aug	27 30	29 16	standards of U.S. Public Health	Sept	20	47
Venezuele				Amchem Products forms Hydro-Fax Co R Antipollution ideas at ACS meeting: industry incentives, new products	nuy	30	10	Service	Oct	20	59
IVP orders urea plant from Snam Progetti	Sept	6	24	check-out	Sept	20	118	Rhine River fish kill blamed on barge's		27	10
Petrochemical buildup accelerating again	Sept		15	Antipollution laws: headaches and oppor- tunities for CPI	Aug	23	37	spillage of endosulfan insecticide Officials still unable to explain the	July	,	18
Showa Denko and Phillips Petroleum may build petrochemical plant N	Nov		114	Calumet Enforcement Conference: Chica- go's Metropolitan Sanitary District				Summary of water quality standards set	July	19	52
Vietman - Drive to break up the military-		.,	-11	denies extension of pollution control deadline	Sept	6	47	by all 50 states (tables)	Oct	29	80
industrial complex at the end of the war started by Senate liberalsN	Dec	10	27	Chemical plant problems get low priority in U.S. pollution studies (chart)	Oct	29	111	Water quality degraded by detergent phos- phates, how much?	Oct	29	106
				(N Newsletter. R Roundup. C Countdow	m)						
				- Contract							

Water resources in Alaska's oil-rich North Slope area should be assessed R	Nov	12	22	Author Inde	×			Fibers that have silken qualities: a nylon- polyester bicomponent fiber called Source			
Water Treatment Contract to investigate activated carbon								and a new nylon dubbed Caprolan Touch Fluoboric acid prices	Sept Aug	6	37 28
for reclaiming water from pulp mill effluent awarded to St. Regis PaperN Desalting	July	5	44	Johnson, Howard C.E. Viewpoint – July 5-5, July 12-5, Aug 2-5, Nov 5-5, Nov 12-5, Dec 17-5,	Dec	24	5	(table)	Sept Sept	20	133
Corrosion of titanium in seawater desalting plants will be studiedN	Aug	23	73	Grace zeroes in on the consumer	Sept	13	30	Nylon staple fiber capacity at Columbia	July	5	31
Dow will participate in feasibility study for a proposed agro-industrial nuclear energy complex in Puerto	nug	۵	13	Piombino, Anthony J. Putting new push into Ethyl Silvis, Sal J.	Aug	23	47	S.C., expansion	Oct Sept Oct	18 20	133
Rico	Aug	16	34	The world of synthetic detergents Part 1 Sept 20-67, Part 2	Oct	18	79	Sulfur prices	July	18 19	25 37
Japanese groups team up to push elec- trodialysis as a way of getting fresh water from salty well waterN	Nov	5	36	How to court the consumer	Aug	16	59	Wants to buy up to 200,000 shares of its	Aug	16	102
OSW to support more innovative research, develop a closer working relationship				Winton, John M. Plant sites 1969	Oct	29	59	common stock for use in employee benefit programs and other corporate			
with industry	Nov	5		Component				purposes	Aug	23	22
Reverse-osmosis and ultrafiltration mov- ing out of the laboratory and into com- mercial use: Wide markets for thin	NOV	12	42	Company In	ae	X		formed	July Dec	5	19
membranes (chart) — letter UN study shows desalination is costly N	Aug	30 4	33	A&P Food Stores Inc Mafia link with chemical industry turns up; mobster-run				Alrac Corp. — nylon-4 at an advanced research stage	Oct	29	120
	Sept	6	47	detergent	July	5	13	ingot prices	Aug	16	87
for PVC plant near Pedricktown, N.J House votes a compromise \$600 million to help states and local communities build	Oct	18	105	ACIP — nitrogen fertilizers shipment for China N ACO — Swedish government discloses	Aug	2	20	Environmental control division set up . R	Oct Dec	18 17	57 26
w-t plants this fiscal year N Industrial coagulant aid	Oct Dec	18 17	40 79	that the nation's pharmacies will be				Fluoride chemicals plant will be built in central Florida	Oct	18	25
Oil spills see Water Pollution Polyelectrolytes for treating waste —	Dec	4,	11	nationalized on Jan. 1, 71 N AKZO — obtains a controlling interest in	Oct	18	66	Operation Breakthrough bidding Probing magnesium possibilities at Great	Sept Dec	24	15 22
Three new, low-cost waste treatments use	July	26	5	Astral	Nov	12	32	Salt Lake	Aug Aug	2 16	10
algae, char, hydrolysis: Z-M, Clarke, and Trans Union processes (table, flow-				Murine completed	Dec	10	22	Alza Corp. – Syntex Corp. will distribute shares of AC N	Dec	17	18
sheet)	Sept	13 11 2	63	Aereon Corp. – FRP for planes	Dec Aug	17	25 40	Amber Laboratories – soluble yeast extract	Nov		104
water aeratorC	Aug	2	35	cause DDT to destroy itself is the goal of a study contract	July	19	31	Ameriem Products, Inc. – forms a new	July	19	45
Amide-type wax	Dec Dec	17	43 56	competition for rocket engine for new space shuttle vehicle	Sept	27	23	company, Hydro-Fax Co	Aug	30 17	16 79
Floor finish	Sept		104	Aerospace Corp. — successful all-chemical laser reported	Nov	5	35	Amerada Hess - St. Croix Virgin Islands	July	19	32
reports	Oct	29	119	Aget Mfg. Co. — waste separator C Agro Holdings — merged Austral-Pacific	Nov	19	101	refinery capacity expansion R American Aniline Products, Inc. — Phillips, Alvin Loyd, new president and director:	Sept	27	18
new president: Hoping to help Merck clean up	Aug	23	83	and Cresco Fertilizers company to be controlled by newly formed company N	Nov	19	114	Managing by the Golden Rule	Aug Aug	30	45 40
Whey - Liquid whey now being discharged as waste by the dairy industry may be				Will not exercise its option to buy an interest in Cresco Fertilizers R Air Liquide Engineering & Construction –	Dec	17	40	American Aviation — FRP for planes American Biltrite — Poly-Turf: Lineup set in synthetic turf tussle	Aug	30	36
converted into a high-protein food supplement	Nov	12	27	LNG plant for BC Hydro R	Dec	3	24	see under name			
Willers, Tom - Occidental Petroleum's T. Willers: He's gone west to coor-				world's largest natural gas liquefaction plant will use U.S. technology N	Oct	4	47	American Commercial Barge Lines – world's largest single-belt conveyor system will			
dinate a \$2-billion giant	Dec Dec	17 24	86 54	Contract for Schaefer's brewing complex at Fogelsville, Pa N Explosion and fire in a compressor at	Dec	17	17	be tied into TVA project N American Cyanamid – acquisition of	Dec	10	68
Wood			-	E i Segundo, Calif., air-separation			-	Midland-Ross' IRC Fiber Div N Acquisition of Sargent Calcium N Aniline prices N Oct 11-41 N	Oct	29	26 13
Radiation Machinery's nuclear irradiator onstream at Hanover, N.J., plant to pro- duce irradiated wood/plastic parquet				plant	Dec	17	24	Melamine plants and processes — U.S. makers adopt Dutch process to foil	Oct	29	105
flooring	Aug	9	33	Industrial gas capacity at Burns Harbor, Ind., will be doubled	July	26	38	import threat (table)	July	12	49
lumber in home-building should be en- couraged by the federal government,				Industrial gas plant at Cleveland	July	13	10	\$2-2.05/share and sales of about \$1.85 billion	Dec	17	26
U.S. Plywood-Champion will supply	Nov	26	35	expansion R Liquid hydrogen for Apollo 11 N Moving further into chemicals	July Aug	30	51	Holland, complex	Oct	11	28
Alaskan unbleached pulp and lumber to Kansaki Paper Mfg	July	12	13	Oxygen-nitrogen plant at Geismar, La Air Products Ltd. – liquid nitrogen plant	Oct	11	28	Sulfur prices	July	19	37
				planned at Bracknell, England R Airkem – Airwick Div. – On Guard, auto-	Dec	3	23	\$25 million in damages	July	26	20
X				matic cleaner for toiler bowl "Odor counteractant" system Ajinomoto – joint venture with IMC to	Oct Aug	29 16	88 94	Turchan, Thomas nominated president of	Nov	24	26
Xylene Atlantic Richfield expansion at refinery				produce protease enzymes and amino acids in U.S	July'	12	21	SOCMA R U.K. clamping down on use of antibiotics in feed supplements. N American Electric Co. — taking over as	Dec	3	45
near Houston, Tex., onstream R Corco-Hercules' para-xylene Puerto	July	5	19	Petroleum-based SCP products	Aug	2	42	the DOD's major supplier of papalm			
Output for first six months of '69 N	Aug	23 30 16	60 29 57	Alberto Culver – personal hygiene spray	Sept			American Enka — Lowland, Tenn., plant	Nov	26	30
Shell's plant at Gordorf refineryR	Aug	16	57	market	Dec	17	81	boosting polyester staple fibers produc- tion	July Oct	5	19
V				Tenneco acquires more than 10% of the	Sept	27	24	American Hoechst – Dyes & Pigments Div. – textile lubricant	Sept	20	104
				Stock	Nov	5	25	Hoechst N	Aug	2	10
Yeast - Soluble yeast extract	Nov	19	104	Alcolac Chemical — acquisition of	Aug	16	87	American Israeli Phosphate Corp. — phosphate mining project in Israel gets			
Yugoslavia Hoechst joint venturesN	Nov	19	113	Epoxy monomer	Sept Dec	17	10 79	green light N American Metal Climax — Ayrshire Col-	Dec	3	20
Polyester fiber plantN	Nov	19	113	Alfa Inorganics, Inc. — icosahedral carboranes	Nov	19	97	Joint study with Penarroya for exploita-	Oct	29	35
_				25 5% interest in Brazil's Polynumica				Joint study with Penarroya for exploita- tion of the Yorke-Hardy molybdenum deposits in British Columbia	Aug	30	16
Z				Textil	Sept Oct	13	24 26	industry will need at least \$3.3 billion to install minimum needed primary			
Zinc				KZO merger N July 19-45 N July 26-27	Aug	30	31	production capacity during the next decade	Dec	3	10
Brighteners	Aug	23	79 28	R Sept 20-43. Petroquimica Sudamericana see under name	Oct	11	26	Port Nickel refinery at Braithwaite, La., purchased from Cuban American Nickel			
Oil Shale milling operations at Keystone Mine in Crested Buttle, Colo., begun. R Prices	Sept Sept	13	18 53	Calas	July Oct	26 29	27 105	Project with Soc. Miniere et Metallurgique	Aug	30	16
Zinc phosphate coatingC	Sept July	13	53 32	Allied Chemical Corp. – aniline prices. N Buffalo dye plant: waste treatment is key	-		105	de Penarroya to develop nickel deposits in New Caledonia	Aug	30	16
Zinc Oxide Lead-free zinc oxide pricesN	Oct	4	37	to modernizing 90-year-old dye plant Chlorine prices	Sept Sept Oct	27	109	Zinc prices	Sept	13	53
Prices N Zinc Sulfate – Prices N	Sept Aug	13	54 87	DDT suit	Aug	29	31 91	interest in Amsco from Atlantic Richfield	Aug	16	42
Zirconia grinding mediaC	Sept	20	103	Fertilizer complex at Iran	Sept	20	139			-0	

American Motor – Justice Dept. settles its antitrust suit against major auto makers N	Sept	20	33	Armour Industrial Chemical Ltd. — doubling fatty nitrogen derivatives Armstrong and Salomeskey — partner in	Oct	4	14	Ayrshire Collieries — American Metal Climax merger effective Oct. 31 R Azote et Produits Chimiques — equipment	Oct	29	35
Americal Oil — FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	Hercules housing program	Sept	27	10	consortium	Sept	13	15
How do you turn laboratory accidents into corporate profits? Steigelman is trying to find out	Nov	12	44	Armstrong Paint & Varnish Works — changes name to Armstrong Chemcon Inc. R	Aug	23	22	deny receiving a request for rulings on the proposed sales of Gulf Resources' Mexicar sulfur subsidiaries to Inversiones		24	27
charging antipoliution regulations were violated	Aug	23	37	Armstrong Rubber Co. — shoe-upper material, Pedura, exhibited at L&A!	Aug	23	24	Azufreras	Nov	26	27
American Potash & Chemical Corp. — titanium processing technology will be				exposition	Nov	19 26	76 27				
traded with Japanese firm N American Smelting & Refining — antimony oxide prices	July	23	74 38	electrodialysis as a way of getting fresh water from salty well water project N	Nov	5	36	BJS Electroplating, Ltd Prince of Wales crowned with aid of 150-year-old			
oxide prices N Aug 9-28 N Copper leaching plant at San Xavier,	Nov	12	38	Glass-fiber products venture with PPG studied Sept 27-27, R Nov 5-21 R Petroleum-based SCP products	Nov	19	120	chemical process	Oct	11	65
Ariz	Aug	16	42 36 79	Sanyo Petrochemical see under name Asahi Electro-Chemical — Kashima complex:	Aug	2	42	Badger Co. — contract for acrylonitrile plant for Tong Suh Petrochemical at	Dec	3	46
Zinc brighteners C Zinc prices N American-Standard Inc. — reverse-osmosis	Aug Sept	23 13	53	Japan builds a \$500-million petrochemical project – its biggest	July	5	34	Ulsan, South Korea	Dec Dec	17	40
systems manufacture	Aug	30	33	Asahi Fiber Glass — glass fiber capacity increase	Sept	27	27	Contract for Monsanto's phthalic anhydride plant at Texas City, Tex N	July	17	18
Tree & Wreath Div.: Sales bells ring for PVC trees	Dec	24	67 53	Ashland Chemical Co. – carbon black plant at Speyer, West Germany, planned R	Dec	17	40	Contract for Total-Chemie's aromatics plant . N Guif Design Div. — contract for Alcoa	Sept	27	24
American Zinc — zinc prices N Ameripol, Inc. — SN high-cis polyisoprene	Sept	13		Ashland Oil & Refining Co acquiring 46.8% stock interest in Canadian Gridoil Corporate reshuffling: Senior v.p. Yancey	Oct	11	28	fluoride plant in Florida N	Oct	18	25
rubber prices. N Amicon Corp. — membranes that can retain materials with molecular weights as low as 500	Aug	30	35	becomes chief operating officer of the parent company and president of newly formed Ashland Petroleum Div.; Blazer				Polybutenes installation for BP Chemicals at Grangemouth	Oct	11	36
as 500 DIAFLO membranes — letter Amoco Chemicals — Argentine polypropylene	Nov	30 19	16	continues as chairman of the board; O.Askins as president and chief				plants and expansion in Antwerp, Belgium	Aug	2	20
and high-density PE plant proposed R \$70-million joint venture on Kharg Island.	Aug Sept	9	25 139	executive officer; Wm. Ferguson new head of Ashland Chemical Div N	Nov	26	22	ICIANZ to produce pigments R	Dec	17	40
Terephthalic plant at Decatur, Ala., will be one of the world's largest N	Aug	16	33	Oleochim see under name Suing T.C. Morrow; claims that Wanda's earnings were overstated N	Dec	10	22	BASF Canada - Canada: BASF, Gulf in oxo battle	July	19	47
Amoco Chemicals Belgium – Geel plants to produce PP, polystyrene and isophthalic acid	Nov	12	30	Asia Oil — Mitsubishi Chemical increases its holdings from 51% to 78%	Dec	3	24	Laval, Montreal, complex ground- breaking	Sept Dec	20	48
Amsterdam Chemio Farmacie – fined for breach of EEC antitrust regulations N	Aug	12	28	Associated Cooperatives – Swedish heavy- duty detergent	Oct		106	BASF Corp. – dyestuffs and pigments unit at South Carolina complex R	Nov	19	44
Anaconda Co – Australian nickel projects. Copper prices	Nov	5	32 28	Norwegian whaler to be converted into a mobile FPC plant.	Dec	17	62	Industrial complex in southeastern South Carolina being fought by the area's	_		
Plant to prove out direct-reduction copper processes will be built at		22		World's largest permanent floating fish- protein plant will be built by Scandina-	Dec	.,	01	Phthalic anhydride capacity of South Kearny, N.J., plant upped	Dec	10	22
Tucson, Ariz	Sept	17	53	vian consortium	Oct	4	48	Seeks trade zone at Carolina site	July Dec	24	25
Anaconda agrees to a gradual take- over of two of its three copper mines	July	5	15	largest permanent floating fish-protein plant N	Oct	4	48	floor polish dispersion C Styropor plant in Jamesburg, N.J.	Dec	17	79
Analabs, Inc. – methanesulfonates C Ancon Chemical – methyl chloride capacity	Dec	24	54	Astral — AKZO obtains a controlling interest	Nov	12	32	expansion	Sept	27	10
at Lake Charles to be doubled R ANIC — caprolactam plant at Manfredonia, Italy	Oct	18	34	French government	Dec	24	32	complex in Beaufort County, S.C BASF Overzee N.V. — Wyandotte Chemicals: BASF wants Wyandotte as raw-materials	Oct	11	21
Sales, six-month	Aug	30	20	chemicals plant in Tertre Villerot, Belgium	Dec	24	39	base for U.S. expansion (charts) Wyandotte Chemicals merger see Badische	Sept	6	28
Ansul Co. – U.S. district court in N.Y. bars Uniroyal from enforcing its maleic	Dec	3	23	Atlantic Lumber Co. – acquisition by Kimberly-Clark in "preliminary acceptance"	Dec	17	18	Anilin- & Soda-Fabrik BASF's Winterhall AG. — paraffin plant at Lingen refinery will use UC's tso-Siv			
hydrazide patent against Ansul N Antek Instruments Inc. – trace-impurity	Nov	12	13	Co. Div. see under name				process N Badische Anilin- & Soda-Fabrik – acquires	Aug	2	2
analyzer	Nov	19 26	101	Chairman Anderson believes government policy will advocate "only modest changes"	Dec	17	26	a 50% interest in Elastomer AG N Acquires a license to use a Kaiser	July	5	3
Antle, Bud, Inc. – Dow Chemical Financial buys about 17,000 acres in Ariz. and Calif N	July	5	9	Cities Service to sell AR shares N Sept 6-9, N Oct 11-21 N	Oct	29	26	process for the synthesis of methylene- di-p-phenylene diisocyanate N Acquisition of Industrias Coia R	July Dec	5 24	3:
Apache Chemicals - ultrapure chemicals C Apco Oil - Alaska Barite bought by Inlet	Nov	19	97	Grass growing attemped on North Slope tundra N	Aug	23	74	Acquisition of Salzdetfurth's stocks planned	Nov	19	11:
Oil and AO	Sept	20	43	Gulf-Western Industries receives about \$84.5 million for two big chunks of its holdings in AR	Sept	6	9	Argentine industrial chemical complex at Rosario	Dec	24	3
graph system	Oct	29	129	Netherlands propylene oxide plant will use	July	12	20	Ethylenediamine by new process N EEC antitrust team fines nine European firms for alleged price fixing of apilling	Aug	16	10
with Tefion to form a conveyor belt Agua-Chem Inc. – desalting equipment may	Aug	16	106	AR's technology	Aug	16	56	firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48 N Oct 18-65 R	Nov	5	2
make possible a billion-dollar business in by-products of industrial wastes N	Nov	12		and gas leases	Sept	13	18	European profits rise (table)	Oct	11	2
Feedback on reverse-osmosis - letter Aquitaine Chemicals Inc formed to market		4		fount of oil? Para-xylene and ortho-xylene expansions at refinery near Houston, Tex.	1401	,		Nacionales, Chile R Investing \$1 billion in new plants and		24	3
nylon-11 and make nylon-11 and-12 R Nylon-12 plant planned in Pennsylvania Aquitaine-Organico — forms Aquitaine	Nov	12	18	Philadelphia refinery fire N	July Sept	13	19	Expansions	July	10	2
Chemicals to market nylon-11 and make nylon-11 and nylon-12 R	Sept		18	S.S. Manhattan expected to arrive in Point Barrow, Alaska, early next week N Sales and earnings N	Sept	20	34	Melamine plants and processes (table)	July	12	4
U.S. investment plans	Nov	5		Earnings may be up N TAPS will be under the strictest	Dec	12 10	13 14	Merges two wholly owned Australian subsidiaries, BASF Australia and Badocol Chemicals	Dec	17	4
Fort Madison, Ia. dedicated	Oct Aug Oct	16	56	controls ever placed on pipeline builders	Nov	12	20	Monsanto's phthalic anhydride plant will use BASF technology N Orders the 'world's largest' air separator from Linde AG	July	19	1
SMA resins as additives for rug shampoos Wood-plastic tiles C	July	11 12 19	36 26 101	Union Oil of Calif. buys remaining interest in Amsco Western	Aug	16	42	separator from Linde AG R Petrochemical feedstock in Europe	Dec	10	2
Argus Chemical Corp. — epoxy plasticizer		26	143	to build refinery at Machiasport, Me Atlas Chemical Industries — forms Imperial	July	5	15	Rhine site for petrochemical intermediates	Oct		
see under name Vinyl plastic stabilizer prices N	Aug	23	59	Atlas, a 50-50 venture with ICIANZ in Australia	Oct	29	56	Sales	Aug		1
Arkla Chemical – phospene shipments halted in wake of public furor	Sept			Stuart Pharmaceuticals Div. — Newark, Del., plant to make selected pharmaceu- ticals, including liquid Mylanta and				Sales in the U.S N	Nov		1
Armco Steel — U.S.'s first OG unit to collect CO from basic oxygen converters at Middletown, O. plant	t Aug		34	Sorbitrate R Austin Co. — engineering on hydroquinone for Signal Chemical's unit N	Aug		16	Spain: phosphatic fertilizer project for Huelva possible	July	12	
CO from basic oxygen converters at h Middletown, O. plant Armour & Co. — Dial's synthetic detergent manufacturing and distribution operation	s mug	,	, ,4	Austral-Pacific Fertilizers - fertilizer	Oct	11	55	Team in technology formed	Nov Oct		
In Chicago acquired by Darrill	V Dec	: 1	9	plants onstream; merger with Cresco Fertilizers due	Nov	19	114	U.S. investment plans	Nov		
Greyhound will acquire from General Host its AC shares	R Nov		5 21	plant onstream	Oct	4	20	West Germany's chemical industry boom N	Dec July		
Interest in Shellstar Ltd. sold to Royal Dutch/Shell. Armour Industrial Chemical Co. — fatty acid	Nov	21	6 27	weight-savings metals. Avisur Corp. — Argentine polypropylene and high-density PE plant proposed R	Oct		61	Wyandotte Chemicals: BASF wants Wyandotte as a raw-materials base for			
products' prices	y July			Strike at polymer plant in New Castle,			25	U.S. expansion (charts)	. Sep	. 6	,
will reach 181 million lbs. next year	Oct		4 14	Del	Oct	18	34	N Oct 11-22	Nov	12	2

Bahamas Oil R	efining Co Freeport, mas Island, refinery to be				Urea and phenolic resin capacity boosts at Freemont, Calif., Kent, Wash., and				Charple, Robert A. new president and			
completed n	ext spring	Aug	2	28	Springfield, Ore	Aug	30	9	director — It was big news in Boston when a Cabot talked to a Charpie	July	19	69
Bailey Meter C	o. — function generator C Industries — acquisition	July	26	57	Borden Chemical Co. (UK) Ltd. — Prince of Wales crowned with aid of 150-year-				Gazocean see under name Cabot International Finance — will issue			
or Lonza Lt	d N . — Holland, Brazil and	Oct	4	10	old chemical process	Oct	11	65	\$12-million worth of five-year notes in	Dec	17	26
Mexico oper	ations expanded N	Aug	2	20	has tentatively agreed to acquire BT. R	Sept	13	18	the Euro-dollar market		17	26
Baker Perkins,	and lead nitrate prices N Inc. — Chemical Machinery	Aug	16	88	Bralorne Oil and Gas – acquired by Chemcell	Oct	29	49	ant pumps	Aug Oct	16	110
Div Cent	rifugal countercurrent extractor — letter	Aug	16	5	Bristol-Myers — tetracycline case: third chapter in tale; Justice seeks \$25				Plastic pumps			
Baldwin-Montro	se Chemical – DDT suit nylon plant in India N	Oct	29	31	million in damages	July	26	20	Welton, Ted, new president: Hoping to	Sept		103
Barringer Rese	arch - ultraviolet stack	Sept	6	24	Tetracycline restraint of trade suit R British Columbia Hydro and Power	Dec	24	26	additive	Aug	23	83
gas monitors	(table) Ited – Basic Chemicals Div.	Aug	2	31	Authority - LNG plant	Dec	3	24	India N California Time Petroleum – Sulfur-ex-	Sept	6	24
forms Chemi	co-Basic Corp. July 5-46 R	Sept	27	18	fiber industry escapes damage during				traction plant on Navarro County, Texas,			
Bayer Internati	onal Finance N.V will bonds N	Nov	5	14	riots N British National Research Development	Aug	30	20	property plannedN Calvo-ICI-Foret – low-density PE	Oct	18	26
Bayer Leverkus	ien – isocyanates plant		-		Corp. — thin, strong, unsupported silicone rubber membrane will permit				expansions	Sept	20	48
Beaunit Fibers	e, Australia N - conversion of a 25-million-	Oct	29	49	the building of more compact heart and				expansionsN	Sept	20	48
lbs/year fila performance	ment plant to make high-	July	19	24	British Petroleum — naphtha for Singapore	Oct	29	119	Calvo-Phillips Petroleum-Cros-Foret – high-density PE expansions N	Sept	20	48
Bechtel Corp	- air-cooler sales begin fresh-water reserves shrink.		-		plantN Protein concentrates made from petroleum	Sept	27	24	Calvo Sotelo – benzene plant at Puertol- lano planned	Dec	24	39
Mountain Pac	ific Pipeline Co. see under	July	5	55	- letter	Sept	20	16	Ethylene output at Puertollano uppedK	Dec	24	39
name Beckman instru	ments, Inc. – conductivity				Sohio merger to BP American operations	Sept	27	24	Petrochemical expansion in Puertollano N Camag Inc. — Achem Div. — metal com-	Sept	20	48
meter		Nov	19	101	will be voted Oct. 9	Sept Oct	11	10 22	plexing reagent	Sept	20	100
Infrared stack	gas monitors (table)	Nov Aug	19	97 31	Antitrust is tough on Americans too -				pore planned R	July	5	34
Bedford Institu Beech Aircraft	te - Nova Scotia oil?	Oct	18	33 40	Merger okayed by Justice Dept N	Nov	26	21	Camp Laboratories, Inc. — Neumann, George C., seeking big opportunity in little			
Bell Telephone	Laboratories - micro	riug	•	40	Stockholders meeting was adjourned until Dec. 9	Dec	3	10	firm	Sept	20	145
in building	ubbles" may be the answer ow-cost, compact computers				Merger okayedN	Dec	17	17	acquire 46.8% stock interest	Oct	11	28
and telephor	e switching systems N	Aug	16	102	Subsidiary for production and sale of protein from petroleum; two plants at				Canadian Industries Ltd. – demand weak- ening in some markets; PE production at			
planes	off Engineering - FRP-bodied	Aug	9	37	Grangemouth, Scotland and Lavera,		17		Edmonton plant curtailed since a fire	Cont	12	24
Berger, Jensen seeking to b	& Nicholson Hoechst uy into BJ&N R	Nov	12	32	France R Tanker Torrey Canyon oil spillage case	Dec	17	40	last June	Sept	13	24
Takeover bi	dN nms' competition in bidding	Nov	26	36	TAPS will be under the strictest controls	Nov	19	33	Cliff sulfuric plants and stops sulfuric exports to the U.S	Aug	16	87
for control of	f BJ&N N	Dec	24	18	controls ever placed on pipeline builders	Nov	12	20	exports to the U.S	Aug	16	38
industry turn	- Mafia link with chemical is up: mobster-run sales				Tarragona refinery-ethylene project bids .	Nov	12	20 29	FPC	Dec	17	61
agency pres	sured A&P to sell detergent lurphy, Henry discusses	July	5	13	BP Chemicals — acetic acid and vinyl acetate capacity at Hull and Baglan Bay.				Carborundum Co. — fused silicaC Cardinal Protein Ltd. — fish protein plant	July	5	41
new approac	h to design at ISA meeting	Nov	5	33	England expansion	Oct	29	49	will be built in Nova Scotia N Dec	Dec	17	61
Big Three Indu	ies — oil removal boil-out C strial Gas & Equipment Co.	Aug	23	79	acetate capacity at Hull and Bagian Bay, England expansion. N BP Oil Corp. — S.S. Manhattan expected to arrive in Point Barrow, Alaska, early				3-10, IPA extraction for FPC	Dec	17	62
LOX supplie	ers for Apollo 11 N high-temperature paint C	July	26	51	next week	Sept	20	34	Carey-McFall — PVC trees — Sales bells ring.	Dec	24	67
Tentatively a	grees to acquire Bowen	-	26	143	LPG for Japan Bromet ethylene dibromide plant at	Oct	29	50	ring Cargill Inc. — Carguard prices N Carlisle Chemical — amide-type wax C	July Dec	26	38 43
Tools Billiton-M&T C	hemische Industries -	Sept	13	18	Magnolia, Ark., going onstream N	Aug	9	27	thiodipropionic acid ester C	Nov	19	97
acquisition	hemische Industries — of Billiton's share by M&T N.Y	Dee	,	24	Magnolia, Ark., going onstream N Brown & Root — Mr. Clyde", erection pole and gallows head assembly, has				Cartex Corp. — numerical control used to increase production rate	Dec	3	51
Bishop, William	n Co. — Days-Ease, auto-	Dec	3	24	the greatest litting capacity now avail-	0.4			Carus Chemical — hydroquinone production, sales and outlook	Aug	16	101
Bissell Inc	ers for toilet bowls aerosol rug shampoo	Oct	12	88 26	able in construction industry	Oct	11	55	Cassella Farbwerke Mainkur AG - ECM	,,,,,		
Blasius Indust	ries – acquires Stalwart Adanlock-Jamestown and	,			Brown Boveri — equipment consortium Brunei Shell — world's largest natural gas	Sept	13	15	antitrust team fines nine European firms for alleged price fixing of aniline dyes			
wraps up a	public offering of 335,000				liquefaction plant on Borneo will use				N Aug 2-20, N Aug 16-48, N Oct 18-65, R Sales and profits in '68 N	Nov	12	33
Sales gains a	s common	Oct	11	21	U.S. technology N Buchler – fined for breach of EEC anti-	Oct	4	47	Catalan Chemical — merger talks with S.A.		2	
products an	d external expansion	Dec	17	25	trust regulations. N Buckley, W.K. Co. — personal hygiene spray market. Bunker Hill Co. — Pacific Div. acquired by	Aug	2	28	Cros resumedN Catalytic Construction — contract from	Aug	4	20
Mt. Pleasan	lobil Chemical's plant at t, Tenn., to produce Mocap				spray market	Dec	17	81	Goodyear for polyester cord project in Ala.	July	12	21
Blue Star Line	- Du Pont files cargo	Oct	11	28	western Lead Products N	Oct	11	22	in Ala	Aug	23	13
damage sun	ined for breach for EEC	Sept	20	34	Sulfuric acid unit at Kellogg lead smelter planned R	July	5	19	Lakes Chemical N Celanese Corp. — acetal resin demand	Aug	63	
antitrust reg	pulations N	Aug	2	28	Contract to Leonard Construction N	Sept	20	33	picking upN Chemical plant operators take college	Oct	11	42
Bofors Industri	romatic acids	S ept Sept	20	100	Zinc prices N Bunker-Ramo – acquires a majority interest	Sept	13	53	Competition in bidding for control of	Sept	13	59
Boise Cascade	- acquires control of ustries	Sept	13	24	in Usine Metallurgique Doloise N Burlington Industries — cutting back its	Nov	12	14	paint producer Berger, Jenson & Nicolson R Nov 12-32,	_		
moser, 5., at	American Forestry Assn.:	ж	.,	5-4	effort on Scott Papers' graft polymeriza- tion technique	Index	21	**	Nicolson R Nov 12-32, N Ethylene glycol expansion N	Nov	19	18 75
agencies in	ry policies of government the housing field? N	Oct	4	9	Burns & Roe - participant in feasibility	July	26	52	Formaldehyde capacity at Bishop, Tex.	Aug	9	11
	Oil Co Bolivian govern- BGO to provide the country				studies for a proposed agro-industrial nuclear energy complex in Puerto Rico N	Aug	16	34	Konam N.V. 50% interest to be sold to		,	
with free na	tural gas for domestic con-	Sont	13	24					National Distillers claims Celanese	Oct	4	15
May lose son	e of its natural gas	Sept							infringed its VAM patent Oil and gas business will be sold to	Nov	19	39
Natural gas o	ipeline and oil installations	Oct	18	65					Union Pacific RRN	Sept	6	9
nationalize	oan will cover half the cost	Oct	29	49	C & I/Girdler — Contract for IVP nitrogen fertilizer plant	Sept	13	15	Operation Breakthrough bidding	Dec	24 12	22
of construct	ing pipeline to deliver gas				Non-noble metal catalyst for nitric acid. N	Sept		68	Plastics operations expansionN Poromerics: many starters, few finishers.	Oct	4	9
to Argentin	n's Gas del Estado Novernment will assume	July	12	25	Vistron will use U.S. technology for its urea plant at Lima, O	Aug	2	39				
guarantee	s to permit resumption of	D	•	20	sources & Chemical under study N	Nov	19	34	Bishop, Tex. N Sept 20-34,	Sept	20	43
Bolivian State	Oil Co. — World Bank loan	Dec	24	39	CIL - profits up	Nov	12	21	first Mexican nylon feedstock plant N Celanese Plastics Co. – hexene copolymer	Aug	2	20
will cover I	half the cost of constructing deliver gas to Argentina's				mercial product based on high-lysine				resin	July Aug	26	57 29
Gas del Es	tado N	July	12	25	corn being test marketed in Cali, ColombiaN	Aug	2	39	HDPE resin for bottles Central Farmers Fertilizer Co. – Garn,	-		
permit resu	vernment guarantees to mption of work on pipeline	Dec	24	39	Justice sues Ciba, CPC over drug patents, licensing deals	July	19	23	Robert discusses distribution cost	Dec	17	51
Bombardier, L	ld. – sports market – snow- pe	Dec	24	68	Methyl glucoside and methyl glucoside-		-		Central Solvents & Chemicals — acquisi- tion of Southern Solvents & Chemicals. R Central Soya — acquisition of Rigo	Aug	23	22
Bonner & Moo	re – computer systems for	500		30	based polyethers plant at Argo, III R Ott Chemical see under name	Dec	24	26	ChemicalR	Aug	30	16
refineries a	e of instruments for and chemical plants	. Nov	19	108	CRA Inc FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	N.V. Centrale Suiker Maatschappij, Ltd. — Amsterdam court orders company to stop			
Borden Chemic	al Corp. — formaldehyde licensing competition	. Nov	19	79	CTIP - Technip and CTIP talks fall				advertising "unfounded, destructive criticism" of cyclamates	Aur	30	39.
Packaging f	Im capacity at Compton, Calif.	,	-		through	Aug	16	101	Cerro Corp dismuth prices	Aug		28
doubled Solidifying i	ts position as No. 1 U.S.	Dec	17	26	single-bett conveyor system will be	Dec	10	68	Certified Laboratories – acquired by Marion Laboratories			21
formaldehy methanol c	ts position as No. 1 U.S. de producer and beefing up	Aug	23	19	tied into TVA project				Acquisition completed R	Dec	17	26
Styrene-buta	apacitydiene latex production	Dan	.,		planned	Dec	3	23	Cessna Aircraft Co. – FRP for planes Charlotte Chemical Laboratories – acquir-	Aug		
capacity to	be tripled N	Dec	3	10	Stellite operations N	Dec	24	17	ed by Staley Mfg. CoR	Aug	16	42

N.V. Chefaro, Ltd. – Amsterdam court orders Centrale Suiker Maatschappij				CIDIA — Dow picks Chemico as prime con- tractor for its \$120-million petrochemical				Petrochemical Dept rust-inhibitors C	Sept July	20	103 51
and Suikerunie U.A. to stop advertising				complex in Argentina N	Sept	13	24	Restructuring of corporate divisions and	July	26	51
"unfounded, destructive criticism" of cyclamates	Aug	30	39	Cie. de Construction Mecanique – Indian heavy-water plant	Oct	11	56	realignment of executive responsibili-			
Chem Systems Inc methanol markets	_			heavy-water plant	Out	**	20	ties, including election of a president and chief executive officer okayed	Aug	30	15
will change drastically says Kinsella . N Mitchell's proposal for a big new facility	Dec	24	57	riame:				Tarragona refinery-ethylene project bids . Uranium complex in southern Texas R	Nov	30 12 24	29
Mitchell's proposal for a big new facility in Australia discussed at AICE meeting	Sept Oct	6	41	Cie. Française des Petroles - expansions		*	**	Western Hemisphere Petroleum Div	Dec	29	26
Resorcinol process	oct	11	55	planned with SNPA	Nov	12	30	Wayne Glen new president Continental Products Co. – Odessa, Tex.,	Aug	30	15
Mining Corp. of Canada see under name Chemcell Ltd. — oil and gas business				under name	Nov	12	20	to be fount of learning or fount of oil?	Nov	5	21
expansion; will acquire Bralorne Oil				Tarragona refinery-ethylene project bids Cie. Francaise des Produits Chimiques-	MOV	44	29	Conzinc Rio Tinto of Australia – nickel projects in Australia		5	32
and GasN	Nov	29 12	49	Shell-urea adduct plant at Berre, near Marseilles, to produce linear paraffins				Coppe-Rust – contractor for units for		,	
Sales and profits, first-half '69	Aug	16	38	planned; wax cracker olefin capacity at		-		Rumanian fertilizer complex	Aug	12	22 33
Chemetron Corp Candee, C.C., president of newly formed Chemicals Group: Reor-				Berre will be increased	Aug	2	20	Copper Range - Copper prices N Corco-Hercules - para-xylene Puerto Rican	Aug	9	28
ganizer finds little time left for relaxing	Aug	9	41	power plant on Ohio River, near Moscow,				plant will be expanded	Aug	23	60
Cardox Div. – carbon dioxide plant near Morris, III	Oct	18	34	O. planned	Sept	27	18	Com Products Co See CPC International		-	00
Deep wells are catching on as a way of disposing of chemical wastes N		-		eral Technologies Corp R	Aug	30	16	Corning Glass International – plant in Bucharest to manufacture tv tubes	Aug	2	22
National Cylinder Gas Div Mt. Vernon.	Aug	2	40	Argentine office bomed	Dec	3	20	Corning Glass Works — Photochromic glass may be the basis for computer com-			
ind. plant starts producing oxygen,	Aun	22	22	N Sept 6-9, N Oct 11-21,N	Oct	29	26	ponents N	Aug	30	39
nitrogen and argon	Aug	23	22	Natural gas liquids complex at Mont Belvieu plans	Sept	20	38	Photochromic glass for information storage and display devices		20	117
Sun Chemical's takeover bid: rebuffed	Aug	23	37	Polymer Div. awards Fluor Corp. construc-				Cosmodyne Corp. — lawsuits charging	Sept	20	117
but still wooing	Sept	13	16	tion contract for Lake Charles, La. PE plant	Aug	23	22	antipollution regulations were violated . Courtaulds Canada Ltd. — Cornwall, Ont.,	Aug	23	37
Chemical Commodities Inc. – phospene traffic halted by U.S. DOT	Sept	20	38	Clarino Sales Corp. of America — Poromerics: many starters, few finishers	July	26	43	continuous filament rayon yarns production			
Chemical Construction Corp Chemico-				Clarino, shoe-upper material exhibited at L & Al exposition	*			Staple capacity at Cornwall, Ont. upped	July	12	29 24
Basic Corp. formed July 5-46,	Sept	27	18	Clopay Corp. – acquisition of Inmont's	Nov	19	76	Staple capacity at Cornwall, Ont., upped Courtaulds Ltd American subsidiary will	40.3	.,	
chemical complex in Argentina N	Sept	13	24	copying products business N Coca-Cola Co. – evaluating plastic bottles	Nov	5	14	build an acrylic fiber plant at East- over, S.C	Aug	16	42
Contract for Du Pont's nitric acid plant at Repauno Works, Gibbstown, N.JN	Sept	20	33	made from a material named LOPAC	Nov	12	19	License for Hercules' high-strength			
at Repauno Works, Gibbstown, N.JN Investment cost for urea plant (chart)	July	19	62	Coherent Radiation Laboratories – ion		10	22	graphite fiber plant	Dec	17	69
Chemical Pollution Control Corp. – organ- ized as a processor of waste hydro-				laser C Cold Spring Bleachery – technical help for	July	19	32	rioters' fire-bombs	Aug	30	20
carbons from refineries and petrochemical plants between Houston and Texas City	Aun	23	37	Du Pont in developing Tyox	July	5	39	Polyester fiber plant at Carrickfergus, Northern Ireland plannedN	July	26	14
Chemical Research Consultants - Cyclic	Aug			producers of petroleum coke with re-				Poromerics: many starters, few finishers. Sales and profits N July 5-35,N	July	26 26	43
compounds	Aug	23	79	straint of trade	Dec	17	25	Courtaulds (North America) Inc. – Staple	Nov	20	36
to promote Chemico system for controlling		-	20	offshore gas pipelineN	July	19	17	plant at Le Moyne, Ala., expansion Cresco Fertilizers – Agro Holdings will not	July	19	24
air pollution	Sept	27	18	Columbia Scientific Industries – elemental analyzer	Dec	3	43	exercise its option to buy an interest			
several plants	July	5	46	Columbian Carbon Co carbon black plant				in CF	Dec Nov	17	40 114
CFK to swap flame-retardant technology	Dec	17	24	(9th) in Marshall County, W. VaR Color concentrate pricesN	Oct	18	34	Crompton & Knowles - Althouse-Tertre			
Chemische Werke Huels GmbH – joint venture with VEBA-Chemie to double				Ethylene plant at Lake Charles, La	Dec	3	32 12	see under name Cross, S.A. – merger talks with Catalan			
polyolefin capacity	Aug	30	32	Petrochemical plant in either Port Eliza- beth or Durban, S. Africa considered R Columbus and Southern Ohio Electric Co.—	Dec	24	39	Chemical resumed	Aug	2	20
New plants and expansions planned for next three years	Aug	30	32	Columbus and Southern Ohio Electric Co nuclear power plant on Ohio River, near				chloride monomer and chlorine-caustic			
Sales for first-half increased 18.7%, to				Moscow, O. planned	Sept	27	18	soda project at Puertollano, Spain N Crown Zellerbach – Gaylord Container Div. – G. Keith Provo discusses waste	Aug	9	24
\$166.6 million	Aug	16	48	Combustion Engineering Inc. — Dolomite injection process designed for Union				Div G. Keith Provo discusses waste			
expansion plans	Nov	26	36	ElectricN	Dec	3	46	problems at Natl. Conference on Packaging Wastes	Oct	4	44
under name				Sulfur from stack gas: which process is best?	July	5	46	injection-molding plants planned in Glass-			•
Chemoleum — fertilizer exports going up Chemolimpex — investing \$54 million in a	Oct	4	34	Trying to unload shares in United		12	22	boro, N.J. and CalifN Rights to a Japanese "polyolefin paper"	Aug	2	4
Canadian potash projectN	Aug	2	20	Nuclear	Nov	12	22	process obtained	Dec	10	67
Chemplex Co. – HDPE resin for bottles Chemtex Fibers – contract for Snia	Aug	9	29	discharge valves	Nov Dec	26	143 54	purchase Port Nickel refinery at			
Viscosa's facilities expansion R	Dec	24	39	Oxygen analyzer	Dec		34	Braithwaite, La R	Aug	30	16
Nylon plant in Madhya Pradesh, IndiaN Polyester fiber plant in IndiaN	Sept Sept	6	24	of Ralgro anabolic agent for feedlot steers	Nov	26	134				
Cherokee Nitrogen Co. – non-noble metal catalyst for nitric acid	-	13	68	Methanol prices N Sept 6-33, N	Sept	26 13	53 37				
Chesapeake Instrument Corp. — Ultrasonic	Sept	13	00	Monosodium glutamate pricesN Nitroparaffin plant at Sterlington, La.,	OCI	•	31				
Solution Analyzer to measure solids contents of solutions and suspensions. N	July	5	44	doubles capacity	Nov	12	22	DMS, Inc "intellegence" service for 150 federally funded civil programs			
Chevron Oil - Perth Amboy, N.J. accuses CO of letting its refinery emit "cabbage-	July	-	**	doubles capacity	Sept	6	33	availableN	Oct	11	22
CO of letting its refinery emit "cabbage- like odors"	Aug	16	94	Commonwealth Edison - Chicago files antipollution suit	Oct	11	55	Dai Nippon Ink & Chemicals - petroleum-		-	
Chevron Research - petroleum-based SCP	Aug	-	42	Commowealth Oil Refining - acquisition		-		based SCP products Daniel Construction Co. – operation	Aug	2	42
Chiba Butadiene – butadiene extraction	Aug			of Petroleum Marketing Corp N Aromatics plant startup in Puerto Rico	Nov	26	22	Breakthrough bidding	Dec	24	22
Chinese Petroleum Corp. – petroleum-	Sept	13	29	will disrupt domestic prices, says Pres. Casey N	Aug	22	60	synthetic detergent manufacturing and			
based SCP products	Aug	2	42	Penuelas plant starts upN	Nov	5	30	Dart Industries — acquisition of Nappe-	Dec	3	9
Chris-Craft Industries – DDT suit Chrysler Corp. – Justice Dept. settles its	Oct	29	31	Puerto Rico's Penuelas refining complex expansion	Oct	4	9	Smith MfgN	Dec	24	18
antitrust suit against major auto	Cont	20	22	Commonwealth United - Dart Industries'				Acquisition of Southeast Latex, South- east Chemical & Plastics' subsidiary R	Oct	18	34
Cia. Espanola de la Penicilina y Antibio-	Sept	20	33	Rexall Div. merger plans terminated R Rexall's retail and franchise division	Aug	16	42	Acres in Kern County, Calif., bought for		20	**
ticos – synthesis for a new and unusual antibiotic called phosphonomycin, ef-				acquisition expected to be completed		30		possible development	Oct	29	35
fective against bacteria in animals	1.			next month	July	19	26	prices	Aug	30	30
reportedN Cia, Espanola de Minas de Rio Tinto -	Oct	11	55	acquired by Rohm & Haas R Nov 5-21, R Consolidated Gas Supply Corp. — Cryo- genic recovery of liquid hydrocarbons from natural gas has replaced oil ab-	Dec	17	26	grug givisign	July	19	26
IQA see Industrias Quimicas Asociadas				genic recovery of liquid hydrocarbons				Acquisition okayed	Nov Dec	3	14
UEE merger July 19-48	July	26	27	from natural gas has replaced oil ab-	Nov	12	50	PE resin prices	Aug	30	29
make problems Cia. Generale del Magnesio – synthesize magnesium oxide from sea water plant	Aug	30	31	sorption in W. Va. N Nov 5-35, Consolidated Natural Gas Co. – cryogenic	****		30	Rexall retail and franchise division sale to Commonwealth United expected to be			
magnesium oxide from sea water plant				plant to separate natural gas liquids at Hastings, W. Va.	Nov	12	50	completed next month	July	19	26 42
at Syracuse, Sicily, to be built N Ciba Corp. — ECM antitrust team fines nine	Nov	19	113	Hastings, W. Va. Continental Engineering — Tanzania Fer- tilizer orders NPK fertilizer plant	July	5	34		July	5	41
European firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48,				Continental Oil - acquires a 50% working	July	,	-	Dawn Mining — rehabilitation of mine and mill in Washington	Oct	4	15
N Oct 18-65,	Nov	5	21	interest to explore in the Republic of Equatorial Guinea, West Africa, R	Dec	17	26	Dayton Power & Light Co nuclear power	301	,	-3
FDA moves to take eight combination	-		47	Agrico Chemical Div. attempt at a 10%	500			plant on Onto River, near Moscow, O. planned	Sept	27	18
diuretic drugs off the market N Geigy-Ciba merger. Europe's mergers	Sept		-	across-the-board price boost for all fertilizers	July	5	31	Dead Sea Works — potash expansion R Delaney & Pettit Industries — Isofoam Pro-	Dec	24	39
Merger may be contingent on a U.S.	Aug	30	31	fertilizers	July	19	37	ducts Div. acquired by Witco	Dec	3	24
Justice Dept. ruling N	Sept	13	10	president	Aug	30	15	De Laval Separator Co. – Sludge dis- charger	Sept	20	103
Antitrust is tough on Americans too – Viewpoint	Nov	5	5	FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	Delpex Adhesives - acquired by WitcoR	Dec	3	24
ICt's 82% interest in Ilford acquisition R Justice sues Ciba, CPC International over	Oct	29	56	Greek refinery and other industrial plants		30	10	Delta Projects - Shell's gas processing plant to be built near Cremona, AltaN	July	19	17
drug patents, licensing deals	July	19	23	planned N Hawaiian refinery planned N	July	26	14	Delta Scientific Corp. – analyzer- controllers	Sept	20	101
				(N Name latter D David or C C					-apr	20	

Denki Kagaku Kogyo – chloroprene				I murdencity PE reices N Oct 19.50	Nav		20	Old Bloken: Tons plant of Transcone			
capacity boostR	Aug	23	35	Low-density PE prices N Oct 18-58,N Magnesium mill products plants at Rus-	Nov	,	30	Old Hickory, Tenn., plant of Typer spun- bonded PP rug backing expansionR	Nov	19	44
Denki Kagaku Kogo – chloroprene capacity boost R	Aug	23	35	sellville, Ark., under construction R Napalm: company loses out on napalm —	Dec	24	26	Permasep permeators Pharmaceutical move; will acquire Endo	Aug	30	35
Fluorocarbon plant planned R Polystyrene sale to China N	Aug	23 19 2	120	will bid again Operation Breakthrough bidding Oyster Creek, Tex., phenol capacity to be 400 million lbs by '70 (table)	Nov Dec	26	30 22	Laboratories	Oct	18 24	33 18
Desarrollos Industriales – Monsanto	rug	•	20	Oyster Creek, Tex., phenol capacity to be				Endo acquisition is one step closer N Plans to establish a wholly subsidiary	Dec	24	18
DeSoto, Inc. — acquisition of Quartite Creative Corp.; will purchase Kerns				-letter	Sept Nov	20 26	133 12	in Australia to replace the Australian branch of Du Pont Far East, a U.S.			
Creative Corp., will purchase Kerns Furniture	Aug	30	16	Package guaranteed to control corrosion in ammonia and hydrogen purification				company	Aug	30	20
Goldman Sachs makes secondary offering				units offered	Aug	9	33		July	26	37
of 700,000 shares	Nov	12	22	Participant in feasibility studies for a proposed agro-industrial nuclear energy				Poromerics: many starters, few finishers. President C.B. McCoy says an average	July	26	43
Glace Bay neavy-water plant: U.S.	tuhe	12	43	complex in Puerto RicoN	Aug	16	34 55	8%/yr. earnings growth over the next five years would be "resonable and attainable"N			
Deutsche Shell - Welbergen, J.C. says	July	12		Polystyrene pricesN Rhodia acquires 50-acre tract at	Dec		22	attainable"N	Nov	12	14
German gas use limited	Oct	29 16	52 57	Brazosport, Tex N Sewage disposal plant for Cleveland N	Oct Aug	18	66 39	Qiana quickens its pace	Sept	6	37
Dexter Corp. — Hysol Div. — epoxy compound and resin plants in Japan planned R Nov	riug		٠,	Stock offeringN	July	30	9	Lenher tells where the money goes	Aug	9	15
19-120R	Dec	17	40	Styrene monomer prices	Sept		33	- letter	Aug	16	5 75
19-120	Sept	13	18	monomer introducedN	July	12	16	Sulfur prices N	July	19	37
Caustic soda pricesN	Dec	10	53	Texas buildup slowed by strikes Toyo Rayon seeking government approval	July	9	16	Teflon used in dispenser unit for secur- ing lunar samples	Nov	26	134
Discount pricing may be eliminated N Chlorinated solvents prices N	Dec	17 20	56 109	Toyo Rayon seeking government approval of a patent agreement with Dow for production of PP continuous-sheet foam N	Sept	4	24	TEL and TML pricesN	July	26	37
DDT pricesN	Sept	26 29	38	Triad pipeline project	Sept	20	24 38	Thermoplastic combining fluorocarbon and ion exchange properties called XR N	Sept July	20	124
DDT suit	Oct			Triad pipeline project				Toluene diisocyanate price	July July	19	37 37
ing to emerge in patent literature N Goodyear charges DS and Mobay are	Sept	13	67	Dow Chemical Europe - Chlorine-caustic-	Aug	9	30	Urea prices		30	20
infringing its urethane patents N	Oct	18	71 53					with major Swiss banks	Aug	30	20
Monosodium methyl arsonate prices N Montedison patent suit alleges infringe-	Sept	13	53	planned N Ethylene output upped as company bids	Oct	29	26	fiber plant expected to start up in '71 at Morrisburg, Ont.	July	19	17
ment of polypropylene patent N	July	5	43	to become one of Europe's biggest	0.4	30	40	at Morrisburg, Ont		10	
ment of polypropylene patent N Oriented propylene film prices N Plastics Div. — polypropylene operation	Nov	5	29	Naphtha cracker at Stade or Terneuzen	Oct	18	69	Duriron Co., Inc. — diaphragm compressors	Nov	12	21
at Houston expansion	Oct	4	9	planned N Oct 29-26,	Dec	10	22	compressorsC	Dec	17	79
Delaware City, Del., boost	Sept	20	43	about 17,000 acres in Ariz. and Calif.				Dutch State Mines – ABS resins plant at Geleen	Oct	11	36
Proposed \$45-million offering of sinking fund debentures registered	July	26	14	from Bud Antle, Inc N Dow Corning – dimethyl silicone fluids,	July	5	9	Acrylonitrile capacity to double and will sell hydrogen cyanide by-product to			
fund debentures registered N Dillingham Corp. — Hawaiian refinery			14	emulsions and antifoam formulation		-	24	Rohm & HaasR	Dec	17 11	40
plannedN Dolco Packaging — Dow Chemical's	July	26		prices N Nov 12-38,	Dec July	12	36 19	Linde to build ethylene plant at Geleen R Melamine plants and processes — U.S.	Oct	11	36
domestics in the "red" Dorr-Oliver Inc. — lopor sewage treatment	July	12	19	Selected types of silicon in short supply N	Aug	12 16 19	88 76	Melamine plants and processes — U.S. makers adopt Dutch process to foil	tube	12	49
plant will be installed on top of Pikes		20		Silicone price cuts				import threat (table)	July Aug	12	20
Peak near Colorado Springs, Colo Dow Badische Chemical Co. — Dow Chemi-	Aug	30	33	Ventures Investment & Finance Co R Dow Unquinesa — anti-air-pollution riots	Aug	23	22	Refinery at Geleen, Netherlands planned with Shell	Sept	27	24
Dow Badische Chemical Co. – Dow Chemi- cals's domestics in the "red"	July	12	19	outside titanium oxide plant in Bilbao,				VCM plant, probably in Limburg province planned			
Phrix Werke see under name Dow Chemical Co. — aircraft de-icing				SpainN Drew Chemical – chemical regeneration	Nov	12	43	Duval Corp. — Culberson mine is the main	July	12	33
fluid	Nov Dec	19	104 58	of the nickel catalysts used to hydro-	Dee	10	12	element of hid to become a major factor	Oct	4	12
Argentina: Dow confirms its proposal to	Dec	24	20	genate fats and oils Expansion at Boonton, N.J., polymer	Dec	10	63	in world sulfur markets	Sept	27	44
build a major ethylene-based petro- chemical complex under terms of the				complex now in operation N Ducilo S.A. — Argentine office bombed N	July Dec	26	37 20	Dynasciences Corp. – acquisition of	Sept	13	18
chemical complex under terms of the country's new "petrochemical promotions' law (table)	Cant	12	20	Du Pont de Nemours, E.I. & Co. Inc				Dynasciences Corp. – acquisition of Microbiological Associates			
Argentina's producers protesting	Sept	13	29	acetal resin demand picking upN Acrylic fiber prices	Oct Oct	11	42	AmchemR	Oct	29	35
planned \$120-million petrochemical	huba		21	Acrylic fiber prices Adiponitrile plant at Sabine River Works (Orange, Tex.) Air-cooler sales begin upswing as fresh-							
complex in Bahia Blanca	July		36 25	Air-cooler sales begin upswing as fresh-	Aug	16	42				
Government approves ethylene-based petrochemical complex in Bahia				water reserves shrink	July	5	22				
BlancaN	Dec	10	28	Anhydrous hydrofluoric acid plant adja- cent to sulfuric acid installation at		30		Eagle-Picher - lead chemical prices N	Aug	23	60
Argentine consumer products dept. bombedN	Dec	3	20	Burnside, La., will be builtN Army contract to reactivate a TNT plant	Nov	12	14	Eastech Inc vortex-shedding flowmeter keeps tabs on process pipelines' fluid			
Argentine petrochemical users are re-	Dec	24	39	at Newport, IndR	Aug	16	42	pulse beat (diagram)	Aug	16	107
sisting Dow's sales efforts	Dec	17	55	Canada - Nova Scotia's Glace Bay heavy-water plant: U.S. team reportN	July	12	43	flowmeterN	Aug	9	33
Austral-Pacific see under name Australian operations expansion N	Nov	19	114	Cargo damage suit filed against Blue Star Line and Southern TowingN	Sept	20	34	flowmeter N Eastern Nitrogen – fertilizer complex at Koorang Island, Australia R	Dec	17	40
Bisphenol unit at Texas Div. plant in				Chlorinated solvent prices N CO ₂ off-gas for Southwest Cryogenics N	Sept	20	109	Eastern Stainless - Linde's new process for making stainless steel will be put		-	
Freeport to be built	Aug	30 26	16	Computer planning of instrument mainte-	Oct	29	25	to work in modernization of Baltimore			
Butyl styrene	Nov	19	40	nance produces savings at Sabine	Nov	19	108	mill	Nov	5	36
- letter	Dec	17	8	River Works, Tex. Corfam and Dorzan, shoe-upper materials, exhibited at L & Al exposition N				Eastman Chemical Products Inc. – adhesive for aircraft	Aug	9	40
Caustic soda plant in Australia possible N Caustic soda prices	Aug	10	20 53 56	Discontinues final processing of smoke-	Nov	19	76	Cellulose acetate membranes	Aug Sept	30 20	35 100
Caustic soda prices	Dec	17	56	less powder at Carneys Point, N.J., cellulose products plant in the wake of				Chemicals Div. — ethylene glycol ethers C Dioctyl and diisodecyl phthalate off-list	Oct	29	129
to other companies interested in re-				the June 4 blastN	July	19	18	prices being terminatedN	Dec	17	55
verse-osmosis applications	Aug	30	33	Elastomer Chemicals Dept. – fluorocar- bon elastomer	Sept	20	117	Hydroquinone production, sales and outlook	Aug	16	101
Corp.'s technology	Dec	10	68	bon elastomer Explosives Dept. – "conversion-rolled"				Eastman Kodak - Carolina Eastman Div	7.449		-0-
magnesium chloride prices N	Dec	24	58	titanium-clad steel plate, top new con- tender for use in the fabrication of				Kodel polyester unit at Columbia, S.C	Aug	30	16
Chemico is prime contractor for a \$120- million petrochemical complex in				process vessels	Dec	17	25	montedison patent suit aneges initinge-	July	6	43
Argentina	Sept	13	24	plant - a water-desalting unit at Plains,				ment of polypropylene patent N Eaton, Yale & Towne - Research Div	July	,	45
Chlorinated solvent prices N Sept -	Dec	17	55	TexGM stockholder suit against Du Pont	Aug	30	33	air bags may join seat belts as major auto safety devices	Aug	30	40
20-109,	Sepi			reopened	Aug	23	20	Ebasco Industries - Boise Cascade		22	
takes action only when cancrene sets				Hard-hitting anti-freeze advertising cam- paigns are boosting sales; anti-leak				acquires controlN Ecological Science – acquires 70% interest	Sept	13	24
in" Domestics in the "red" Environmental Control Systems Group — Thomas Becnel at Natl. Conference on Packaging Wastes says "the ultimate	Sept	20	118	paigns are boosting sales; anti-leak formulas at center of a controversy Instruments Div. — ultraviolet stack gas	Dec	24	62	in Seila R	Dec	3	24
Environmental Control Systems Group -	July		.,	monitors (table)	Aug	2	31	Ecology Inc. – N.Y.'s solid waste into fertilizer plant	Sept	20	123
Packaging Wastes says "the ultimate				Low-density nylon foam for water safety and flotation products being test market-				Ecolotech Research - Z-M process: for cleaner effluent, hydrolize the heavies			
	Oct	4	42	ed in Florida	Aug	30	40	(table)	Sept	13 11	63
Ethylene diamine at Terneuzen, Nether- lands, to be doubled R	Nov	12	30 75	Methanol prices	Sept Nov	13 26 12	120	- letter Ekono Assn. for Fuel and Power Economy-	Oct	11	5
Ethylene glycol expansion N Ethylene plant for Gulf Coast may be in	Nov		75	Multifunctional gasoline additive N New peroxygen compound, Typx, and	Nov	12	43	Arhippainen, B. discusses black-	Cont	27	52
planning stage		3	12	hydrogen peroxide analyzer promise sol- utions to textile-bleaching problems	July	5	39	liquor oxidation at TAPPI meeting Elastomer AG — BASF acquires a 50%	Sept	27	52
	Dec								Healton.		35
planning stage	Dec July Dec	1 12	36 55		July			interestN Elcor Chemical – Campbell: financial	July	3	
Great Salt Lake complex (map)	July	12	55					fortunes won't improve until Rock		24	
Great Salt Lake complex (map) Honolulu plant to make Polymulch PE mulching film for sale to pineapple in-	July Dec Sepi	12 17		Nitric acid plant at Repauno Works, Gibbstown, N.J. contract to Chemico N Sept 20-33,	Sept		18	House is onstreamElemental sulfur-from-gypsum plant is	Nov	26	27
Great Salt Lake complex (map) Honolulu plant to make Polymulch PE mulching film for sale to pineapple in- dustry and Hawaiian converters R	July	12 17 6		Nitric acid plant at Repauno Works, Gibbstown, N.J. contract to Chemico N Sept 20-33,				House is onstream Elemental sulfur-from-gypsum plant is having trouble		26	
Great Salt Lake complex (map) Honolulu plant to make Polymulch PE mulching film for sale to pineapple in-	July Dec Sepi	12 17 6		Nitric acid plant at Repauno Works, Gibbstown, N.J. contract to Chemico N Sept 20-33,	Sept			House is onstreamElemental sulfur-from-gypsum plant is	Nov	26 12 29	27

Joint-venture arrangements for explora-				Fithyl-Dow Chamical Co - Dow Chamical's							
tion of company's mineral leases Electric Reduction — resumes output at	Nov	26	27	Ethyl-Dow Chemical Co. — Dow Chemical's domestics in the "red". Ethylene dibromide plant at Freeport, Tex., will close; Magnolia, Ark., plant	July	12	19	Fertilizer Corp. of India — Montecatini- Edison technology will be used in two or more fertilizer plants R	Dec	3	23
phosphorus plant in Newfoundland July 12-37	July	19	51	onstream y	Aug	9	27	Fiber Industries, Inc polyester fiber plant near Durham, N.C. plans			
clear power plants, which use enriched				Etino Quimica — VCM unit at Martorell planned	Aug	9	24	shelved	Aug	16	34
natural uranium as their fuel says Marcel				Eversharp — merger with Warner-Lambert Pharmaceutical	Sept	27	9	Salisbury N.C. expansion	Sept	13	18
Electro-Chemical Industry Co hot-water-	Nov	5	33	Expando Seal Tools, Inc gate-valve			***	improvement R	July	19	26
soluble PV alcohol film will be market-		10	-	toolC	Aug	16	110	ribers india - polyester fiber capacity			
ed in the U.S	NOV	19	84					Fields Plastics & Chemicals - acrees to	Sept		24
troller C Electrochimica Corp. – rechargeable-	Oct	29	129	EMC Com. American Missess and				acquire all the outstanding common stock of Knickerbocker CaseR	July	19	26
alkaline battery system that would be small enough and reliable enough to be				FMC Corp. — American Viscose adds 100-million-lbs. rayon staple				Pine Organics - Olin Corp. merner talks. N	Sept Dec	27	9
implanted as a heart pacemaker	Oct	4	26	Chlorine-caustic price-fixing suit: FMC	June	19	24	Merger called off	Sept	20	100
Electroclor - Argentina's producers pro- testing Dow's planned \$120-million				cleared of collusion	Sept	6	16	Firestone Tire & Rubber – acquisition of MCA	July	26	14
petrochemical complex in Bahia Blanca N			•	Inorganic Chemical Div. — ferrite-grade strontium carbonate	Nov	26	143	Aquisition terms altered N Computer/Optimizer computerizes recipe	Aug	30	10
El Paso Natural Gas - Sonatrach contract	July	5	36	Nianara Chemical Div - new product	Dec	17		tormulation N	Oct	18	71
for importation of Algerian LNG into U.S. over a 25-year period	Oct	18	26	particularly effective on flying isects Niagara Chemical Div. — Rhine River fish kill blamed on barge's spillage of	Dec	**	82	Rayon-rayon bias belt tires N Urethane foam for aircraft fuel tanks	Oct	11	41
Triad pipeline project "World's largest" LNG project will cost	Sept	20	38		July	5	18	Fisher Governor Co. – Monsanto merger completed	Aug	23	22
almost 51 billion, is slated to ease				Officials still unable to explain the	July	19	52	r isner screntitic - some new, saie,		20	
eastern U.S. gas supply problems N Emerson & Cuming — Dielectric Materials	Oct	18	26	retro-Tex Corp. see under name	-			organometallic hydride	Sept	20	123
Div. — epoxy-casting resin	Dec	3	43	Rayon prices N Soda ash at Green River, Wyo., expansion	Oct Dec	24	37 25	27 companies working together to estab- lish a cooperative R & D enterprise	Oct	n	28
prices N Emko Co. – personal hygiene spray market Empire State – shee-upper material Al-	July	5	31	Fairchild Hiller – Republic Div. – FRP for planes	Aug	9	40	Fluor Corp. — air-cooler sales begin unswing		**	
Empire State — shoe-upper material, Al-	Dec	17	81	Fairfield Technology Corp. — piezo- electric fluid metering valve: "Moon			-	as fresh-water reserves shrink Construction contract for City Service's	July	5	22
Empire State — shoe-upper material, Al- crona, exhibited at L. & Al exposition . N Endo Laboratories — Du Pont now in drugs;	Nov	19	76	valve" seeks down-to-earth CPI process				Polymer Div. PE plant at Lake Charles, La.	Aun	22	22
will acquire Endo Labs	Oct	18	33	Falcontridge Nickel Mines Ltd nickel	Aug	2	36	Supporting units for Northern Petro- chemical ethylene oxide plant N	Aug	2	
Endo acquisition is one step closerN Engelhard Minerals & Chemical — Bolivian	Dec	24	18	shortage forces up prices, spurs look for new sources (tables)	Mari				Nov	26	120
interests may be affected by military coup	Oct	18	44	Strike settlement expected soon N	Nov	26	119	plant at Gordorf	Aug	16	57
Palladium pricesN	Aug	9	28	Sudbury, Ont., mines and smelter closing complicates nickel situationN	Aug	30	29	more efficient construction equipment			
Platinum pricesN Engineers, Inc. – Drew Chemical's	Nov	12	38	ransteel inc ceramic coating able to	ruy	30	.,	for use in the Gulf of Mexico N Fluorodynamics Inc. – fluorocarbon-lined	Aug	9	34
Boonton, N.J. plant ENI see Ente Nazionale Idrocarburi	Dec	10	63	stand up to high temperatures and destructive atmosphere N	Oct	18	72	equipment	Aug	2	35
Enjay Chemical Co. – butyl rubber for man- made lake liner in Hawaii				Farbenfatriken Bayer Ag — acquires 80% in- terest in Norstroem and Sjorgren R	Nov	12	32	werke joint venture	Aug	16	57
Low-density PE prices	Nov Dec	26	126 58	Dormagen unit to produce chloring R	Oct	ii	36	Foote Mineral Co. — chrome boycott against Rhodesia forces growing dependence on			
Errich, A. Co phosphatic fertilizer				ECM team fines nine European chemical firms for alleged price fixing of aniline dyestuffs N Aug 2-20, N Aug 16-48, N				Rhodesia forces growing dependence on Russian ore July 12-37,	Oct	29	106
project for Huelva, Spain, possible N Ente Mineraria Siciliana — SARP see	July	12	33	dyestuffs N Aug 2-20, N Aug 16-48, N Oct 18-65,	Nov	5	21	Metallurgical products prices N Ford, Bacon & Davis — Commercial Solvent's nitroparaffin plant at Sterlington, La R	Dec	17	56
under name				European profits rise (table)	Oct	n	26	nitroparaffin plant at Sterlington, La R Ford Motor Co. — Justice Dept. settles its	Nov	12	22
Ente Nazionale Idrocarburi – customer for Russian natural gas	Dec	17	32	Isocyanates plant at Newcastle, Australia planned N	Oct	29	49	antitrust suit against major auto		-	
Electrochemical complex in Calabria R Environmental Services Inc. – water	Dec	17	40	Leverkusen capacity additions for phthalic anhydride, trimethylol propane and			**	PEG-BB tire abandoned because of ride	Sept	20	33
aerator	Aug	2	35	aniline N	Aug	9	24	harshness	Oct	11	41
McKee's process machinery division R	Nov	19	44	Plastics capacity expansion	Aug	9	25 26	products and plants in the shortest			
Equitable-Higgins Shipyards Inc. — crea- tion of a foreign trade subzone for New					Nov	5	24	Rubberized automobile bumpers	Dec Nov	5	21
Orleans upheld by a federal court N	July	5	24	Sulfur price drop leads to switch to elemental sulfur (from pyrites) for proposed sulfuric acid plant at				Sales (including imports) will decline next year	Dec	17	26
Erpac S.A. – Hercules to acquire a 50% interest	Nov	12	41	Antwerp N	Sept	27	43	Sodium-sulfur battery for electric cars N	Nov	19	89
Escambia Chemical Corp. — Air Products & Chemicals moving further into chemicals.	Aun	40	41	Teaming with Shell to build dilsocy- anate plant in Belgium	_	-		Forestal Industries - Cruikshanks Div. acquired by M & T Chemicals R Fosfatbolaget Aktienbogaget - Unifos	Nov	12	32
Methanol capacity at Pensacola, Fla., to	- Non		**	Technical exchange arrangement in the plastics field with Russia negotiated N	Dec	3	20	Fosfatbolaget Aktienbogaget — Unifos Kemi see under name			
be doubled	MOV	>	14	U.S. investment plans	Nov	19	113	Foster Grant Co earnings for '69			
scent for synthetic trees	Dec	24 19	68	West Germany's chemical industry boom. N Will seek \$75 million in the international	July	19	45	reported	Dec	10	22
Esso Chemical Co. Inc. — ag chem cuts: three Caribbean units sold to Grace, and	July	.,	31	money market to cover financial require-				at Baton Rouge, La., plant	Dec	10	22
liquid fertilizer blending plant at Warboys				ments of affiliated Bayer Group N Farbwerke Hoechst AG — acquisition of	Nov	5	14	explosion-forming method N Foster Wheeler Italiana — contract for	Sept	27	58
England, to close	Nov Dec	26	27	Berger, Jensen & Nicholson R Nov 12-32, N Nov 26-36,	Dec	24	18	fertilizer complex at Potenza, Italy N	July	12	33
French affiliate will likely show a net	Dan	17	32	Antibiotic, Flavorecin, for use in		**		Foxboro Co. – process-control electrodes keep eye on ions	July	26	49
loss for '69 N Esso Chimie – will likely show a net loss	Dec	-		animal feed	Sept	27	57	keep eye on ions			**
for '69 N Esso Research & Engineering – building	Dec	17	32	firms for alleged price fixing of aniline dyestuffs N Aug 2-20, N Aug 16-48, N				paint	July	12	27
a basic research program for profit:	Oct	11	40	Oct 18-65, R	Nov	.5	21		July	19	65
Cross-breed basic and applied research. Government contract to answer the ques-	oct	11	40	European profits rise (table)	Oct	11	26	Freeport Sulphur Corp. — Australian nickel			22
tion: Why has the USSR not cashed in on its outstanding theoretical studies in				Investment plane in II S	Nov	5	25	Projects Chemical Div. — New techniques to cut	Nov	,	32
catalysis? Conclusion	Sept	20	117	Mexican expansion program Mitsui will import Marbert cosmetics . R Nigotiating with the Reed paper group for possible joint ventures . N Northern Instantic filter industria	Dec	29 24	55 39	Culphur production cutback	Nov	12	34
Petroleum-based SCP products	Aug	2	42	possible joint ventures	Nov	26	36	What next for the big sulfur producers?	Sept	27 26	17
linear sodium alkane sulfonate licensed	Dan	10	47	Northern Ireland's fiber industry escapes				What next for the big sulfur producers? French Atomic Energy Commission — Limeil Weapons Research Center: pulsed laser			
to Hodogaya Chemical, Japan N Sulfuric acid recovery system studied N Esso Standard Oil Co. — LPG for Japan	Dec Dec Oct	10	67 46 50 24 29	damage during riots	Aug	30 16	20 57	beam — a step toward control of nuclear fusion N	Sept	27	57
Singapore expansions planned	Sept Nov	29 27 12	24	Rhine River fish kill blamed on barge's spillage of endosulfan insecticide	July	5	18	Furance Plastics - Prepregs in aircraft -		-	
Tarragona refinery-ethylene project bids . Esso Standard Sekiyu — applies for LPG	Nov	12	29	spillage of endosulfan insecticide Officials still unable to explain the source N		19		construction	Aug	4	37
from Australia Ethyl Corp. — alpha-olefins plant at	Oct	29	51	Sales in the first half '69 N	Aug Oct	23 18	52 28 65	ical complex in Kyushu	Dec	17	40
Pasadena, Tex., will cost more than				Sales outlook	Oct	18	65	SystemsR	Aug	30	16
\$10 million	Oct	18	26	West Germany's chemical industry	July	19	AE	Fusion Systems – acquisition of Fusecolor Corp	Aug	30	16
Chlorinated solvent prices N	Sept	20	109	boom N Yugoslavian joint ventures N	Nov	19	113				
Commercial Development Div. – alkyl phosphorous intermediates	Nov	19	97	being readied in Bolivia	July	5	32				
Discusses what would it cost to reduce or eliminate lead in gasolineN	Dec	24	71	Federal Pacific Electric – U.S. Smelting merger plans terminated							
Metallic sodium prices	Nov	19	75	Felix AB - protein product research	Aug	16	42	GAF Corp acquisition of Uniroyal's			
Putting new push into Ethyl — report	Nov	19	75	Ferguson, H.K. Ce. – contract from TVA for urea solution unit	July	12	21	research center in Wayne, N.J	Aug	23	22
Bethyl chloride prices . N Putting new push into Ethyl — report Anthony J. Piombino (charts & table) TEL and TML prices . N	Aug	23	47 37	for urea solution unit	Aug			N.J R	Dec	10	22
	50.9	_		Vinyl plastic stabilizer pricesN Fertilizantes del Istmo Centroamericana —	Aug	23	37 59	Dyestuff & Chemical Div. — men's hair- spray formulation	Sept	20	104
new antismog rules, give new life to old solvent. (tables)	Aug	9	30	Mexico's Guanos goes south: builds fertilizer unit in Guatemala				Igepal label nonionic surfactants N Industrial Products Div. — pressure-	Aug	16	88
				rertilizer unit in Guatemala	Aug	30	32	vessel filters	Dec	3	43
				(N Newsletter. R Roundup. C Countd	own)						

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Industrial products plant at Westerly, R.I., expansion	Sept	13	18	Epichlorohydrin elastomers capacity at Avon Lake, O. boosted	Oct	29	35	Port Arthur, Tex. ethylene plant Protein concentrates made from petroleum	Dec Aug	2	41
Calvert City, Ky. plant	Nov	19	79	common R	Nov	12	22	Will sell shares of Goodrich common R Gulf Resources & Chemical — acquisition	Nov	12	22
Monomer, polymer, solvents and interme-	Oct	29		Heat-reactive latex	Aug Sept	16	110 139	of C&K Coal will make possible entry	Mari	10	24
diate prices N Myers, Robert, new vice president of	oct	24	100	New effluent-treatment system for PVC				into the coal business N Bunker Hill see under name	Nov	19	34
a new beat	Nov	19	128	plant near Pedricktown, N.J Offering sinking fund debentures	Oct	18	105	Mexican authorities deny receiving a re- quest for rulings on the proposed sales			
- letter	Dec	10	5	Offering sinking fund debentures N Nov 5-14 R Poromerics: many starters, few finishers	Nov	19	44	of GR&C's Mexican sulfur subsidiaries	Man	21	27
Surfactant prices	July Sept	26	57 54	Aztran, shoe-upper material exhibited at				to Inversiones Azufreras	Nov	26	27
Textile Chemical Div. – white lubricant for finishing conturoy fabrics	Aug	16	110	L&AI exposition	Nov Aug	19	76	Mexican government "may be thinking of confiscation" of GR&C's sulfur proper- ties, says R. Allen	Nov	19	43
for finishing corduroy fabrics C Gas del Estado – World Bank loan will cover	nug	10	110	Takeover attempt N July 19-17 N Goodyear Aerospace – FR P-ceramic composite armor for aircraft		9	40	Mexican sulfur operations will be sold to	1404	17	43
half the cost of constructing pipeline to deliver Bolivian gas to Gas del				Goodyear Tire & Rubber — Beaumont, Tex.	Aug			Inversiones Azufreras including terminal at Tampa, Fla	Aug	16	34
Estado N Gazocean — Algerian LNG due	July	12	25 29	polybutadiene rubber plant expansion N Contract for its polyester cord project	Sept	27	9	Efforts to sell are stymied N	Dec	10	14
Geigy Chemical — Ciba-Geigy merger:	July	5	29	to Catalytic Construction R	July	12	21	Styrene plant to be built at Faustina Works near Donaldsonville, La N	Dec	17	17
Europe's mergers make problems	Aug	30	31	European borrowing up Lawsuits charging antipollution regulations	July	12	36				
Merger may be contingent on a U.S. Justice Dept. ruling	Sept	13	10	were violated	Aug	23	37				
- Viewpoint	Nov	5	5	Polyisoprene rubber prices N Tire and tube prices being boosted N	Aug	23	59 32				
ECM anti-trust team fines nine European				Tire and tube prices being boosted N Gourdine Systems — Electradyne system: coatings are the first commercial							
firms for alleged price fixing in aniline dyestuffs N Aug 2-20, N Aug 16-48,				application for EGD N	Sept	6	47	Hajolata y Lamina, S.A. – Iranian plant for direct reduction of iron ore possible. N	Cont		40
N Oct 18-65 N Gelsenberg Benzin – URANIT see under	Nov	5	21	Grace, W.R. & Co. — Bolivian interests may be affected by military coup N	Oct	18	66	Halcon International - Propylene oxide	Sept	6	48
name				Buys majority interest in French edible				project near Rotterdam	Aug	16	56 36
General American Transportation Corp. — computer systems to trace car movements	July	19	42	Contract for exclusive, world-wide rights	Aug	2	10	The Hanna Mining Co. — St. Joseph Lead			
General Dynamics Corp., Electric Boat Div.			**	to market TMCC's output Cresco Fertilizers see under name	Sept	20	112	merger plans terminated R Happy Co. – air-cooler sales begin	Aug	16	42
 submarine tanker may haul oil and sulfur out of Canadian Arctic 	Oct	29	96	Davison Chemical Div Arcagen system	t. k.		**	upswing as fresh-water reserves shrink. Harima Kasei Kogyo — adhesives plant	July	5	22
General Electric Co bacteria strains capable of converting useless solid refuse		-	-	converter employs a special catalyst European borrowing up	July	26	28 36	Igint venture N	Nov	19	120
into a high-protein a imal fodder	Sept	20		Grace zeroes in on the consumer Meyer Lurie (tables, charts)	Sept	13	30	Harlan, Belke and Meyers — partner in Hercules housing program N	Sept	27	10
Instrument Dept. — computer station C Silicone membranes for gas permeation	Sept Aug	20 30	101 35	Hampshire Chemical Div NTA crystal				Hercules housing program N Harshaw Chemical Co. — strike settled. R	Nov	12	22
Silicone price cuts blasted N	Nov	19	76	Prices	Oct	11	42	Harvey Aluminum — Martin Marietta exchange offer for outstanding shares of Harvey			
Some unions reject revised three-year contract	Dec	17	26	as rug shampoo additives	July	12	26	N Nov 5-14 N	Dec	24	17
General Foods - nutrition research stepped up; consolidating existing				Hatco Chemical Div dioctyl and diisode- cyl phthalate off-list prices being				Harvey-Westbury Corp. — electronic gas checker	Aug	2	35
programs in a new Center for Applied				terminated	Dec	17	55 21	Havens International – feedback on reverse-osmosis – letter	Oct		4
Nutrition	July	19	52	Peruvian government declares that it will	July	12	21	Heinrich Koppers - team in technology			•
Australia	Oct	29	50	nationalize all major landholdings Phosphatic fertilizer prices N	July Sept	27	15	formed N Hercasa — Nicaraguan chlorinated	Nov	12	43
General Host — Greyhound will acquire from Host its Armour shares	Nov	5	21	Polymers and Chemicals Div. introduces	Sept	21	**	insecticide plant remained in operation N	Aug	23	28
General Mills, Chemical Div polymeric			79	acrylic terpolymer for exterior latex	Nov	19	43	Hercules Galion Products — Peabody Galion Corp. new name reflects the			
Deriphat helps solve problems of	Dec	17		paints Purchases three Caribbean fertilizer units				merger of HGP and Peabody EngineeringN	Dec	17	18
cleaning leather	July	12	44	from Esso	Nov ;	26	27	Hercules, Inc acquisition of a 50%		• • • • • • • • • • • • • • • • • • • •	20
future in leather	Aug	23	67	PepsiCo files suit N Grampian Chemical — Rezoning approval	Aug	2	9	Acquisition of Radiant Color R	Nov	12	41
meeting and neede advertising campaigns				will permit company to erect a	,			Agreement to take about 200 million			
are boosting sales; anti-leak formulas at center of a controversy	Dec	24	62	petrochemical complex at Invergordon, Moray Firth, Scotland	Aug	9	24	lbs/year of the propylene Northern will merchant discussed	Aug	23	13
Justice Dept. Settles its antitrust suit				Great Canadian Oil Sands - Fort McMurray,				DMT capacity at Hanover plant, Wilmington, N.C. increased	July	12	14
against major auto makers N Plastics in new cars	Sept	20	33 13	Alta. production report	Nov	19	44	Hercasa see under name	.,	**	41
Roche, James sees auto sales dip next year Stockholders suit against Du Pont	Dec	24	25	producers of petroleum coke with restraint of trade	Dec	17	25	High-strength graphite fiber plant in Bowling Green, Md N	Dec	17	69
reopened	Aug	23	20	Fortain 3-1 new migh-strength, migh-mo-				Housing: contract proposal based on			
General Nuclear — Humble buying 9,000 acres in Fremont County, Wyo N	July	5	9	dulus graphite fiber N Great Lakes Chemical – acquisition of	July	5	43	design plans in Operation Breakthrough submitted N	Sept	27	10
General Sekiyu - aromatics plant planned R	Nov	19	120	Cavedon Chemical N	Aug	23		Joint venture with Teijin to make DMT in Japan	Aug	23	35
General Technologies Corp. – acquired by Cities Service	Aug	30	16	Acquisition of Lunevale Products R Acquisition of Microseal Corp R	Nov Sept	13	21	Methanol plant at Plaquemine, La. starts		27	44
General Tire & Rubber — poromerics: many starters, few finishers	July	26	43	Bromet see under name Bromine maker is dead-set on diversifica-				production	Sept	21	44
Will pay the government \$50,000 to settle	,	-		tion; future growth will come from new	Maur	10		New Enterprise Dept. looms large in the company's future growth	Oct	29	32
civil claims for alleged violations of the national traffic and motor vehicle				Chemicals (charts)	Nov	-		company's future growth	July	26	51
safety act	Nov	5	23	Germany's Kalk and GLC to swap flame- retardant technology	Dec	17	24	Operation Breakthrough bidding Partnerships to supply chemicals and	Dec	24	22
step toward control of nuclear fusion N	Sept	27	57	ment with Hudson's Bay Oil & Gas for				plants to ease European industries' pressing water pollution woes	Nev	12	41
Genset Corp. — poromeric shoe material, Jentra 3 N Oct 18-71 N	Nov	19	76	50% interest in 3.7 million acres of oil leases in Canada's Arctic Islands N	July	19	18	Paste sizes used by the paper industry			
- letter Geometrics Inc Operation Breakthrough	Nov	26	12	Great Salt Lake Minerals & Chemicals — Great Salt Lake: potassium, sodium				prices N Pentaerythritol capacity upped	Dec	17	56
bidding	Dec	24	22	sulfate (map)	Sep	t 6	15	N July 12-29, N Aug 2-27 N Pentaerythritol prices N	Sept Sept	13	33
Georgia-Bonded — poromerics: many starters, few finishers	July	26	43	Greyhound Corp. – Armour shares will be acquired from General Host	Nov	5	5 21	Phenoi-from-cumene process	Sept	20	54 133
Georgia-Pacific, Crossett Div formalde-				Grimm, W.T. & Co. — merger activity in the third quarter drops about 15% N			21	Rosin prices	Sept	13	54 56
hyde plant uses ICI process	Nov	19	79	Merger survey (table)	Oct			Heredia y Moreno – equipment consortium.	Sept	13	15
Wilson discusses methanol prices and capacity at NAPM meeting	Oct	18	58	Grumman Aircraft Engineering — plastics for planes	Aug	9	9 37	Hex Industries Inc. — cryogenic vaporizer C Hexcel Products — nylon-epoxy honeycomb	Sept	20	101
	Nov	5	21	Guanos y Fertilizantes de Mexico -				core in aircraft construction	Aug	9	37
Philadelphia refinery aviation fuel fire. N Glamorene Products Corp. – aerosol rug shampoo, Glamorene Power Foam Glantzstoff – acquires a 25,5% interest in Brazil's Polyquimica Textil. N	Sept	13	10	fertilizer unit in Guatemala	. Aug	30	32	Chemical and HVEC to form a U.S.			
shampoo, Glamorene Power Foam	July	12	26	of New Jersey Zinc: Conglomerates				company to engage in production and sale of irradiation cross-linked PE			
Brazil's Polyquimica Textil N	Sept	13	24	Receives about \$84.5 million for two	Aug	9	9 21	toam	Sept	13	18
Glas-Graft of California - acquired by	July	12	21	big chunks of its holdings in Atlantic Richfield	Sep	t 6	6 9	Hitachi Shipbuilding — negotiating with the South Vietnamese government for			
Republic Corp				Gulf General Atomic — scaling up a high-	эср	. ,		the export of nitrogenous fertilizer	Dec	17	40
Glaverbel – glass that is as strong as steel by VHR process N Glaxo Ltd. – U.K. clamping down on use	Sepi	13	68	temperature gas-cooled reactor at Fort St. Vrain, Colo	Dec	1	7 70	Hodgman Rubber Co Butyl rubber for			
of antibiotics in feed supplements N Goldfield Corp. — Tantalum Mining Corp.	Dec	3	45	Gulf Oil (Canada) — Calgary and Moose				Hawaiian man-made lake liner Hodogaya Chemical — Esso Research	Nov	26	126
of Canada see under name				refineries to be converted to asphalt production	Aug	2		licenses radiation-induced process for			
Goldfield Great Canadian Potash — Chemolimpex investing \$54 million in				Canada: BASF, Gulf in oxo battle Gulf Oil Corp. — Bolivian government	Jul	y 1	9 47	making linear sodium alkane sulfonate N Hohnen Oil — urea-melamine adhesives	Dec	10	67
a Canadian potash project N	Aug	2	20	nationalizes operations of Bolivian Gulf			0 40	plant and formalin unit in Osaka	Nov	19	120
Goldman, Sachs — makes secondary offer- ing of 700,000 shares of DeSoto R	Nov	12	22	Contract to Stearns-Roger to expand its	Oct	2		planned	-		
Goodrich, B.F. Chemical & Co. — EPDM: joint development program and engineer-				low-density PE plant at Orange, Tex. F HDPE plant at Orange, Tex. will sell a resin for milk bottles	R No	1	2 22	chemicals in Indonesia	Sept Nov		120
ing studies on a commercial plant at				a resin for milk bottles	Au	9	9 29	Home Oil of Canada — gas from Britain's biggest onshore field will be tied into			
Orange, Tex N	Aug	1	39	Odessa, Tex., to be fount of learning or fount of oil?		v	5 21	the national grid N	Aug	2	40
				(N Namelatter B Boundary C Com							

(N Newsletter. R Roundup. C Countdown)

Honeywell Inc Apparatus Controls				Eastern Nitrogen see under name				Interes fautilies avenue asino un	0-4		**
Div ultraviolet fire detector C	Aug	23	79	Forms Imperial Atlas, a 50-50 venture with Atlas Chemical in Australia R	0-1	20		Interore – fertilizer exports going up Inversiones Azufreras – Gulf Resources's	Oct	4	34
Hooker Chemical Corp. – chlorinated solvent prices N	Sept	20	109	Joint venture with BASF to produce	Oct	29	56	Mexican sulfur operations including terminal at Tampa, Fla. to be			
Deep wells are catching on as a way of disposing of chemical wastes N	Aug	2	40	pigments	Dec	17	40	purchased N	Aug	16	34
French chlorine plant at Lavera will use	nuy			Imperial Oil — polypropylene plant at Sarnia complex, Canada R	July	5	34	Mexican authorities deny receiving a re- quest for rulings on the proposed sales			
diaphragm cells	Nov	26	133	Indian Explosives – fertilizer plant inaugurated in Kampur N	Dec	17	32	of Gulf Resources's Mexican sulfur sub-			
Oxcelle, shoe-upper material exhibited				Single-train urea plant	July	19	59	sidiaries to IA	Nov	26	14
at L&AI exposition	Nov	19	76	Indian Organic Chemicals — polyester fiber plant in India	Cent	6	24	Ionac Chemical Co industrial coagulant			
vinyl chloride monomer and chlorine-				Indian Petrochemical Corp. — aromatics	Sept	0	24	aid C lonics Inc. – electrolytic process for	Dec	17	79
Spain N	Aug	9	24	plant at Koyali	Oct	11	36	sulfuric acid recovery - financing			
Houston Natural Gas - gas pipeline from		-		Indian River Construction - contract for waste-treatment unit at Reichhold's		1		sought	Dec	3	46
Reeves County, Tex., to Texas' Gulf Coast area will be built N	Dec	3	9	Jacksonville, Fla., plant	Nov	19	44	technique called piezodialysis	Aug	30	34
Weighs expansion of chemical ventures	Oct	18	32	Creek plant testing sulfuric acid				IPAKO - Argentine expansion completed R Low-density PE plant at Ensenada.	Oct	29	57
Hudson Bay Mining & Smelting – objects to potash prorationing N	Nov	12	37	recovery system N	Dec	3	46	Argentina planned R	Aug	9	25
Opposes Thatcher's proposal on potash	1401	AL.	21	INDUPA – Argentina's producers protesting Dow's planned \$120-million				Stone & Webster to engineer and design			
prorationing (tables)	Nov	19	37	petrochemical complex in Bahia	Andre .			ethylene unit at Ensenada, Argentina. R Ishihara Sangyo Kaisha, Ltd titanium	Aug	9	25
Potash mine: Sylvite of Canada project R Hudson's Bay Oil & Gas - agreement with	Sept	13	29	Industria Tessili Napolitane - fiber	July	5	36	processing technology will be traded	Aun	22	74
Great Plain Development of Canada for				complex near Salerno	Sept	6	24	Israel Chemicals Ltd petrochemical	Aug	23	74
50% interest in 3,7 million acres of oil leases in Canada's Arctic Islands N	July	19	18	nitrogen plant recommended	July	5	34	IVP see Venezuelan Petrochemical Institute	Oct	4	23
Hudson Engineering Inc. – air-cooler sales				Industrias Coia – acquired by BASF R Industrias Petroquimicas Argentinas	Dec	24	39	ivi see venezueian renochemical institute			
begin upswing as fresh-water reserves shrink	July	5	22	Koppers see IPAKO							
Humble Oil & Refining Corp. — buying 9,000 acres in Fremont County, Wyo., from				Industrias Químicas Asociadas — ethylene	Oct	11	36				
General Nuclear N	July	5	9	expansion		11	36	Jacobs Engineering - Contract for U.S.			
Grass growing attempted on North Slope	Aug	23	74	polyester fiber plant	Nov	19	113	Borax & Chemical's Boron, Calif.	Dec	10	13
RP-1 for Apollo 11 N	July	26	51	and Apco Oil R	Sept	20	43	Japan Ammonium Sulphate Industry Assn	Dec	10	4.5
S.S. Manhattan expected to arrive in	Sant	20	34	Inmont Corp Clopay raising money to				fertilizer plant at Tjirebon, Java July	Sept	27	27
Point Barrow, Alaska, early next week N TAPS will be under the strictest controls	Sept	20	24	complete purchase of Inmont's copying products business N	Nov	5	14	Japan Ethanol – synthetic alcohol from	-		
ever placed on pipeline builders	Nov	12	20	Frye, Alva: Back to the farm in company	Mari			ethylene plant	Dec	3	24
Humphreys & Glasgow — contractor for units for Rumanian fertilizer complex	Aug	2	22	Institut Française des Petroles -	Nov	5	48	urea unit planned R	Aug	23	35
TAFA Div commercial nascent oxygen? - electrically driven bulk heater that				petroleum-based SCP products Intec Labs. – personal hygiene spray	Aug	2	42	Plans to supply Communist China with urea fertilizer from Alaska abandoned. N	Nov	12	28
operates continuously N	Oct	11	56	market	Dec	17	81	Urea-melamine adhesives plant and for-			
Hydro-Fax Co formed by Amchem	Aug	30	16	Interchemie – five Eastern European nations				malin unit in Osaka planned R Japan Gasoline Co., Ltd. – gas process	Nov	19	120
Products, Inc R	Muy	30	10	have combined to strengthen their chemical industries: Bulgaria,				called MRG to produce a gas made up			
/				Czechoslovakia, East Germany, Poland				of methane, hydrogen and carbon dioxideN	Nov	19	99
* */				and Russia N Interlake Steel – Chicago's Metropolitan	Aug	23	28	UOP joins JG in forming a new group that will offer licenses in the Far EastN	-	.,	0,
Ilford - Ciba buys 82% interest from ICI. R	Oct	29	56	Sanitary District will seek injunction				will offer licenses in the Far EastN Japan Synthetic Rubber — Kashima complex:	Oct	4	48
Illinois Central Railway - cars of vinyl				against company for polluting the Calumet Basin N	Sept	27	58	Japan builds a \$500-million petro-			
chloride explode	Sept	20	38 56	riles antipollution suit	Oct	11	55	chemical project – its biggest Johnson & Johnson, Permacel Div. –	July	5	34
Imperial Atlas – formed				Intermountain Chemical — Great Salt Lake: pumping brines (map)	Sept	6	15	economy-grade tape	July	19	32
Assets could double in the next seven	Nov	12	32	International Basic Economy Corp				Johnson, Matthey — platinum pricesN Johnson, S.C. Co. — aerosol rug shampoo,	Nov	12	38
years N Belgium investment considered N	Sept	20	48	Argentine violence hits supermarkets N IBM - Carlson, Walter, at NEIC discusses	July	5	36	Glory	July	12	26
Belgium investment considered N Butakon Div. sold to Standard Brands	Oct	4	20	handling of information	July	5	45	Wax Service Products Div. – floor finish C Jonathan Housing Corp. – joint venture for	Sept	20	104
Bukaton rubber plant at Wilton, Teeside,	Aug	9	24	International Chemical & Nuclear — acquisition of Nutritional				Jonathan Housing Corp. – joint venture for experimental home-building program N	July	5	10
England closing down N	July	12	29	Biochemicals N	Nov	26	22	Jonathan Mfg. – acquired by National Lead	Aug	23	22
Ciba buys 82% interest in Ilford R Contract with Poland to supply Synalar,	Oct	29	56	May acquire K&K Laboratories N- International Commodities Export Corp. —	- Aug	2	10	Jones Chemicals Inc. – phosgene traffic halted by USDOT Sept 20-38,	Sept	27	14
skin treatment drug N	Nov	19	113	fertilizer exports going up	Oct	4	34	named by 03DO1 Sept 20-36,	3ehr		44
EEC's attempt to fine nine firms for allegedly fixing prices of aniline dye				International Hydronics - Rollins-Purle see under name							
N Aug 2-20, N Aug 16-48, N Oct 18-65 R	Nov	5	21	International Minerals & Chemical - Accent	Ma	20	**				
European profits rise (table)	Oct Dec	11	26 32	may be banned N Annual report discusses ag chem prices N	Nov	19	34 38	KDI Poly-Technic, Inc. – water-quality monitors	Aug	23	79
Formaldehyde processing licensing				Controversy of MSG use in baby foods	A	20	10	K & K Laboratories – acquisition by	rug	-	
Nalfloc see under name	Nov	19	79	Simmering N Joint venture with Ajinomoto to produce	Aug	30	19	International Chemical & Nuclear may be possible	Aug	2	10
Northern Ireland's fiber industry escapes				protease enzymes and amino acids in	and.	12	21	KZO see Royal Dutch Salt Kaiser Aluminum & Chemical — aluminum	-		-
damage during riots N Nylon and polyester plant at Offenbach,	Aug	30	20	Monosodium glutamate prices N	July	12	37	complex in Greece - participation			
Germany N	Oct	4	20	Phosphate prices N	Dec	24	58	considered N	Aug	30	10
Opting against a commercial carbon fiber plant in the U.K	Nov	19	90	Pres. N. White: "It's going to take a superlative effort to break even in				Aluminum fluoride expansion at Gramercy, La., plant	Aug	16	33
Partnerships to supply chemicals and		-		fiscal '70"	Oct	18	31	Aluminum ingot prices N Aug 16-87,N Aluminum oxide products pricesN	Nov	18	57
plants to ease European industrials' pressing water pollution woes	Nov	12	41	Prospects for '70 are dim N Stressing cost-cutting of fertilizers	Nov	19	34	Aluminum pricesN	Nov	5	29
Plastics production expansion N	Nov	26	36 24	(chart) International Nickel Co. of Canada –	Aug	16	91	BASF acquires license to use Kaiser process for the synthesis of MPIN	July	5	35
Polyester fiber plant in India N Polyester production upped to maintain	Sept	6	24	Australian nickel projects	Nov	5	32	Celestite ore deposit acquired on N.	50.7	-	
80% share of the U.K.'s polyester fiber				Mechanical alloying combines two well-				Scotia's Cape Breton: will put up a preconcentration plant at the mine site			
PE capacity boost in Europort,	Aug	2	15	known techniques for strengthening metals — dispersion hardening and				and a processing plant at Point Edward:			
Netherlands K	Aug	16	56	precipitation hardening	Nov	12	50	new uses are catching on	Nov Sept	20	36 109
PTFE at Bayonne, N.J., complex Protein concentrates made from petroleum	Oct	11 2	27 41	Nickel prices	Dec	3	36	Great Salt Lake project (map)	Sept	6	15
Sales and profits in the first six months; outlook for the rest of the year is less		-		look for new sources (tables)	Nov	5	31	Organizes Kaiser Trading Co. and will enter the international commodity trading			
than optimistic	Sept	13	24	Profits up	Nov	12	21	enter the international commodity trading field "on a major scale"	Aug	9	27
Sales and earnings in '69 N	Oct	11	34	the company \$97 million (Canadian) in additional labor costs N	Mari	21	220	Wash., completed R	Aug	23	22
Sales and profits, nine-month report N Single-train wea plant at Billingham,	Dec	10	28	Sudbury and Port Colborne operations	Nov	26	119	Sales and earnings, third-quarter report . N Senator Hart accuses Hickel of planning	Oct	18	25
England. Tire-cord adhesives to be made at plant	July	19	59	closing complicates nickel situation . N	Aug	30	29	to "give away" 10,000 acres of the			
in Dighton, Mass	Oct	11	27	Sulfuric acid user are feeling the impact of the inco strike N	Aug	16	87	richest federal shale deposits in Colorado	Oct	18	33
Unique labor contract: Making a new pitch for productivity	Aug	16	55	International Paper - Texas expansion				Kaiser Industries Corp. – Kaiser Engineers	oct	20	23
U.S. investments increased;	-tug	10	33	scaled down N International Pharmaceutical – acquired	Sept	20	33	Div Western Nuclear's contract for uranium mill near Wellpinit, Wash R	July	5	19
polyester polymer and film complex at Hopewell, Va	Oct	11	27	by Marion Laboratories	Nov	.5	21	Kaiser-Le Nickel - nickel shortage forces	July	,	
U.S. Investment plans	Nov	5	25	International Rectifier - Tetracycline	Dec	17	26	up prices, spurs look for new sources (tables)	Nov		31
ICI America – Duncan, Wm. new chairman: In new U.S. job, Scotsman seeks new				restraint of trade suit R	Dec	24	26	Kaltenbach – contractor for units for		-	
worlds to win	Dec	3	54	International Salt — KZO offers to buy up to 1 million shares	Sept	20	43	Rumanian fertilizer complex Kamyr A.B. — Oxygen debuts in the pulp	Aug	2	22
Imperial Chemical Industries of Australia	Dec	24	54	Justice Dept. seeks postponement of pro- posed acquisition, and is rebuffed				mill: first-stage bleaching of kraft pulp			
& New Zealand - boosts net profits		-		Antitrust is tough on Americans too -	Oct	11	28	with high-pressure oxygen and steam may replace three conventional steps using			
15% N	Dec	24	32	Viewpoint	Nov	5	5	chlorine and hypochlorites (flowsheet)	Oct	18	103
				(N Newsletter. R Roundup. C Countd	lown)						

Kanegafuchi Chemical – paraffin joint	h.d.		**	Leeds & Northrup - infrared stack gas				Marathon Oil - Kenai, Alaska, natural gas			
venture with Maruzen plannedR Petroleum-based SCP products Kansaki Paper Mfg. Co. — U.S. Plywood-	July	2	42	monitors (table)	Aug	26	31 133	liquefaction plant now fully operational N Marcona Corp. — Marconaflo technique in	Aug	23	59
Kansaki Paper Mfg. Co U.S. Plywood- Champion will supply Alaskan unbleach-				Lennig Chemicals — acrylate monomer joint				moving iron ore from Peru to the U.S N	Aug	2	39
ed pulp and lumber	July	12	13	Methyl methacrylate monomer plant at	July	12	20	Marion Laboratories — acquisition of Inter- national Pharmaceutical and Certified			
ed pulp and lumber Kartridg Co. — Dow Chemical's domestics in the ''red''	July	12	19	Teesside, England planned R	Oct	29	56	Labs	Nov	5	21 26
Kashima Ammonia - Kashima complex: Japan	July	44	27	Leonard Construction - contract for Bunker- Hill's sulfuric acid plant	Sept	20	33	Acquisitions completed	Dec	17	26
builds a \$500-million petrochemical project — its biggest	July	5	34	Monsanto Enviro-Chem Systems see	oup.			applicant matching test called			
Kasnima Chemical — Kasnima complex: Ja-	July	,	34	under name Lessona Corp. — stretch yarns patent: Court				"Multiple Personal Inventory" Marlene Industries – acquired by Grace R	Sept July	20	40 21
pan builds a \$500-million petrochemical project — its biggest	July	5	. 34	asked to decide relative right of company	0-4	20	00	Martin Marietta — tender offer for Harvey	_		
project — its biggest Kashima Chlorine & Alkali — Kashima	,			and 64 licensees Libbey-Owens-Ford — acquisition of	Oct	29	89	Maruzen Oil — paraffin joint venture with	Dec	24	17
complex: Japan builds a \$500-million petrochemical project — its biogest	July	5	34	woodan industries planned	Oct	11	28	Kanegafuchi planned R Maruzen Petrochemical – butadiene joint	July	5	34
petrochemical project — its biggest Kashima Kita Kyodo Hatsuden — Kashima	July	,	34	Reflective glass coatingsC Lilachim — Belgium fatty amines plant	Aug	2	35	Maruzen Petrochemical — butadiene joint venture with Ube Industries in Japan R		23	35
complex: Japan builds a \$500-million petrochemical project — its biggest	July	5	34	plannedR	Dec	3	23	Chiba Butadiene see under name	Aug	D	22
Kashima Minami Kyodo Hatsuden -	July	,	34	Liljeholmens Stearinfabriks – Belgium fatty amines plant	Dec	3	23	Massengill, S.E. Co. – personal hygiene spray market	Dec	17	91
Kashima complex: Japan builds a \$500-million petrochemical project —				fatty amines plant				Matheson Gas Products Co mass			01
its biggest Kashima Oil — Kashima complex: Japan	July	5	34	use of antibiotics in feed supplements. N Linde AG — BASF orders the "world's largest" air separator	Dec	3	45	flowmeter	July	5	41
Kashima Oil — Kashima complex: Japan builds a \$500-million petrochemical				largest" air separator	Dec Oct	10	22 36		Cont	27	10
project – its biggest	July	5	34	Lindsay, J.W. Construction - contract for	OCI	11	26	Williams Chemical	Sept	27	18
Kashima Vinyl Chloride Monomer ~ Kashima complex: Japan builds a \$500-million				Cardinal Protein's Nova Scotia fich	Dec	3	10	age is coming (charts) McCullough Tool – acquired by National	Sept	20	37
petrochemical project — its biggest Kauakoi Corp. — planning housing for	July	5	34	protein plant		,			July	12	21
permanent residents on Molokai,				production of nitrogen derivatives Lipetco – Libyan petrochemical build-	Oct	4	14	Will be integrated into National Lead's			
Hawaii	Nov	26	126	upN	Nov	12	28	Baroid operation	July	19	26
Kayser-Roth — Challenges Leesona stretch yarns patent	Oct	29	89	Liquid Carbonic — Houston Natural Gas weighs expansion of chemical				McDermott, J. Ray & Co. – contract for Louisiana's offshore gas pipeline N	July	19	17
Kellogg, M.W. Co begins work on Mon-				ventures List Associates — Blacksburg, A. Brent	Oct	18	32	McDonnell Douglas - FRP for plane interiors	Aug	9	37
santo's phenol expansion at Chocolate Bayou, Tex., complex	Aug	16	33	List Associates — Blacksburg, A. Brent discusses petrochemical complex in				Interiors		34	
Cryogenic recovery of liquid hydro-				Philippines at AICE meeting	Sept	6	41	Amoco's terephthalic plantN CTIP and Technip talks fall through N	Aug Aug	16	33 101
carbons from natural gas has replaced oil absorption in W. Va	Nov	- 5	35	Lithium Corp. — Great Salt Lake complex (map)	Sept	6	15	Process machinery division acquired by Envirotech Corp	Nov	19	44
El Tabiazo petrochemical complex	Sept	13	15	Littleford Brothers – Lodige mixers for				metamine Chemicals Inc new name for	IAOA		
Licenses pyrolysis furnace technology to Niigata Engineering	Aug	30	39	Squibb's new plant Litton Industries, Hewitt-Robins Div. —	Nov	19	107	Melchem Inc	Aug	23	22
Niigata Engineering				Freeport phosphate-handling system	Nov	12	34	Chemicals Inc	Aug	23	22
cusses what might be done to improve control panels	Nov	5	33	Litwin – USS Chemicals' contract for Haverhill, O. complex	Aug	2	10	makers adopt Dutch process to foil im-			
Nihon's ammonia plant in ChibaR	Nov	12	32	Haverhill, O. complex	Aug	9	37	port threat (table)	July	12	49
Kellogg Pan American Corp. — El Tablazo petrochemical complex	Sept	13	15	Lockheed Training Center — How to hire minorities	Sept	20	40		Nov	5	21
Kennecott – Copper prices N	Aug	13 9 30	15 28 16	Loeb Rhoades & Co. – Gazocean see	Sept	20	40	Merck & Co., Chemical Div nonmetallic		,	
Kerns Furniture — acquired by DeSotoR Kewanee Oil Co. — Harshaw Chemical	Aug	30	10	Lonza Ltd. — acquired by Baird Chemical				Merck & Co., Chemical Div. — nonmetallic paint fungicide	Dec	3	43
Div. see under name Key Polymer Corp. — vinyl-adhering				Industries	Oct	4	10	containing the antibiotic novobiocinN	July	26	14
	July	5	41	poses a tourist resort on Molokai,				Membranes to separate proteins and enzymes	Aug	30	35
Keystone Mines Co. — milling operations at Keystone Mine in Crested Butte,				Hawaii Loumar Cosmetics – joint Japanese-	Nov	26	126	Strike at three U.S. plants settled N	July	26	13
Colo, begun	Sept	13	18	German venture to produce cosmetics R	Dec	24	39	Welton, Ted, Calgon's new president: Hoping to help Merck clean up	Aug	23	83
Kharg Petrochemical – \$70 ₇ million joint venture on Kharg Island	Sept	20	139	Lowe Chemical Co Choate Road plant purchased by Chemical Pollution Control				Merck Sharp & Dohme — FDA moves to take	ring	-	0.7
Kimberly-Clark — acquisition of Atlantic	Jept	2.0	201	Corp	Aug	23	37	eight combination diuretic drugs off the market	Sept	20	47
Lumber Co. is in "preliminary acceptance"N	Dec	17	18	Corp Lowell Gas — automated liquefied gas processing unit near Lowell, MassR	Oct	18	34	Synthesis for a new and unusual anti- biotic called phosphonomycin, effective	осре		•
King Ranch - Eastern Nitrogen see under				Lubrizol – diacetone acrylamide plant at				against bacteria in animals was			
name Kinkead Industries — acquired by U.S.				Bayport, Tex. complex planned R Lummus Co. — contract for ethylene ex-	Sept	13	18	reportedN Metals Exploration – Australian nickel	Oct	11	55
GypsumR	Aug	30	16	pansion at Soc. Chimique des Charbon-				projects	Nov	5	32
Kloeckner-Humboldt — contractor for maleic anydride plant for Rumania	Aug	2	22	nages plant	Dec	3	24	Michigan Chemical — magnesia products pricesN	Aug	23	60
Knickerbocker Case - Fields Plastics			-	and PE plantsN	Aug	23	13	Microbiological Associates — acquired by		-	
agrees to acquire all the outstanding common stock of KC	July	19	26	Ethylene oxide-ethylene glycol plant near Osaka	Nov	12	32	Dynasciences Corp	Sept	13	18
common stock of KC	_	29	88	Formaldehyde processing licensing				Chemical	Sept	13	18
Koei Trading - adhesives plant joint	Oct	27		competitionIndia: Koyali complex	Nov	19	79 36	Middlewest Motor Freight Bureau – ICC grants 6% blanket increase in freight			
Venture	Nov	19	120	Licenses technology to Toyo		30	39	rates N	Sept	13	54
in KNV to KZO	Oct	4	15	Engineering	Aug	30	39	Midland-Ross Corp., IRC Fiber Div. – staple capacity expansion	hily	19	24
Kooperativa Forbundet — heavy-duty de- tergent on the Swedish market N	Oct	29	106	using Lummus know-how in Russia N	July	19	45	IRC Fiber Div. to be bought by	0111		
Koppers Co., Inc American Aniline	Out	.,	200	for USI Europe	Oct	11	36	Cyanamid N Rayon prices N	Oct	29	26 37
Products Inc. see under name Maleic anhydride prices	Dec	17	56	Pekema Oy PE plant at Swartbaeck, Finland	Oct	29	57	Rayon prices	oct	,	**
Phthalic capacity additions N	Aug	2	27	Lunevale Products - acquired by Great	oct	67		supported silicone rubber membrane will permit the building of more com-			
Resorcinol producer	Oct	11	55	Lakes Chemical	Nov	5	21	pact heart and lung machines N	Oct	29	119
dimer acid unit at fatty chemicals plant				Mathieson R July 12-21,R	Nov	5	21	Miles Laboratories – acquisition of Nu- clear-Chicago's Berkeley Medical			
in Memphis, Tenn	Aug	23	22					Instruments DivR	Dec	24	26
chemical at Kovali	Oct	11	36					Instruments Div			
Kurashiki Rayon Co. – poromerics: many starters, few finishers	July	26	43	M & T Chamicals Inc. acquirer				pleted; PepsiCo files suit N Millmaster Onyx – McGinty, Jerome, new	Aug	2	9
Kyodo Qil — applies for LPG from				M & T Chemicals, Inc. — acquires Forestal Industries' Cruikshanks				president: From depression to pros-			
Australia Kyowa Hakko – petroleum-based SCP	Oct	29	50	Division	Nov	12	32	perity in chemicals	Nov	12	56
products	Aug	2	42	land's Billiton-M & T Chemische				Mine Safety Appliances — infrared stack gas monitors (table)	Aug	2	31
				Industries	Dec	16	113	3M Co. — acquisition of Dart Industries' Riker Labs, ethical drug division			
				metal plating processes can haire meker	_			planned	July	19	26
				5-para-chlorophenyl silatrane rodenticide	Dec	10	63 82	Acquisition okayed N Merger in process of being wrapped up. N	Nov	5	14
				Tin catalysts for making urethanes patent				Dry-cleanable fluorocarbon for incorpora-	Dec		10
L'Air Liquide (Canada) - Indian heavy-				dispute	Nov	12	44	tion into leather finishes	Aug	23	103
water plant	Oct	11	56	try new techniques to manage new			400	Tartan Turf: Lineup set in synthetic	Sept		
the pulp mill: first-stage bleaching of				wentures MCA - Firestone's tentative agreement to	Dec	17	47	turf tussle Mississippi Chemical Corp. — O'Brien, W.E. discusses companies' fertilizer market-	Aug	30	36
kraft pulp with high-pressure oxygen				acquire MCAN	July	26	14	discusses companies' fertilizer market-			
and steam may replace three conven- tional steps using chlorine and hypo-				Acquisition terms alteredN Magma Copper — expansion program	Aug	30	10 15	ing policies	Oct	11	45
chlorites (flowsheet)	Oct	18	103	Magneto-Chemie N.V. — Platinized				ject to develop a gas centinge for			
market Lawes Chemical Co. — liquidated	Dec	17		priority — letter	Sept	20	16	enrichment of propane N Mitsubishi Chemical Industries — aluminum	Aug	23	73
Lawes Chemical Co. – liquidated Lebanon Chemical – DDT suit	Nov	26 29	27 31	duction, sales and outlook	Aug	16	101	plant in Kagawa	Sept	27	27
Leckenby Co may purchase UOP's Ala-		-		Manton Gaulin Mfg. Co. — disperser that processes paints and other coating				Asia Oil holdings increased R Polybutadiene rubber plant in Yokkaichi R	Dec Nov	19	24 120
met DivN	Oct	4	10	systems in batches	Nov	19	43				

Sanyo Petrochemical see under name U.S. investment plans	Nov	5	25	Forms Monsanto Enviro-Chem Systems which will include activities of Leonard				National Distillers & Chemical — Canadian PE project set	Aug	2	14
U.S. investment plans				Construction and Monsanto Biodize Systems	Nov	5	21	PE project set Claims Celanese infringed its VAM patent	Nov	19	39
the export of nitrogenous fertilizer	Dec	17	40	Fumaric acid pricesN	Sept	20	109	'69 income expected to top last year's net			
Project to develop a gas centrifuge for			-	industry-government alliance	Oct	18	105	of about \$8 million (after taxes) as a re-			
enrichment of propane	Aug	23	73	HDPE plant at Texas City, Tex., "sub- stantial portion" of the output will be a				sult of the write-off of obsolete plants and equipment in USI Chemicals Co.			
see under name Kashima complex: Japan builds a \$500-mil-				stantial portion" of the output will be a milk-bottle-grade material Missouri: St. Louis' ban on high-sulfur	Aug	9	29	Division N Sodium prices N	Nov	26	119
lion petrochemical project — its biggest Melamine plant at Kashima planned R	July	5	34 25	Monsanto Iberica see under name	Oct	11	28	U.S. Industrial Chemicals see under name			
Melamine plants and processes (table) Natural gas liquefaction plant on	July	12	49	New Enterprise Div chemical compan-				USI Europe Div. see USI Europe, N.V. National Iranian Oil — petrochemical complex	Sept	20	139
BorneoN	Oct	4	47	ies try new techniques to manage new ventures	Dec	17	47	National Lead – acquisition of Jonathan Mfg	Aug	23	22
Refinery and petrochemical complex in Kyushu	Dec	17	40	Northern Ireland's fiber industry escapes damage during riots	Aug	30	20	Acquisition of McCullough Tool R Will be integrated into the Baroid	July	12	21
Kyushu. R Witsui & Co. – negotiating for interest in Thai oil refinery	Sept	27	27	Northern Petrochemical will acquire domes- tic low-density PE business, including				operation	July Oct	19	26 37
Witsul Ltd. – Eastern Nitrogen under name	-	-	-	LDPE plant at Texas City, Tex., complex	Sept	20	39	Antimony prices	Sept Dec	13	54
Hot-water-soluble PV alcohol film will be		30	-	Phenol expansion at Chocolate Bayou, Tex., complex	Aug	16	33	Baroid Div mineral synthesis plant			
marketed in the U.S	Nov	19	89	Phosphate ester plasticizer prices N Phthalate expansion at Texas City	Nov	12	38	next to its Houston complex planned R Great Salt Lake magnesium project	July	19	26
venture in Korea	Nov	19	120	Phthalic anhydride plant at Texas City.	Aug	9	27	Pollution control program at titanium die-	Sept	6	15
Russian ethylene plant	Aug	30	39	Phthalic anhydride plant at Texas City, Tex., will use BASF technologyN Plasticizer plant at Texas City, Tex.	July	19	18	(map) Pollution control program at titanium die- oxide plant in Sayreville, N.J N Titanium dioxide plant at Nordenham,	Dec	24	17
produce cosmeticsR	Dec	24	39	plannedN	Aug	16	33 55	Germany opened	Sept	13	29
Negotiating for interest in Thai oil refinery.	Sept	27	27	Plasticizers prices N Polyester staple fiber called WD-2 N PE film and sheet extrusion capacity	Sept :	27	57	suspending agents planned R National Petrochemical Co. — Iran takes a	July	12	21
Senboku see under name U.S. investment plans	Nov	5	25	at Kenilworth N I unned R	Dec	10	22	National Petrochemical Co. – Iran takes a petrochemical tack (map)	Sept	20	139
	July	12	14	PV butyral sheet resin capacity expan- sion R Nov 12-22,	Nov	12	30	National-Southwire Aluminum — Hawesville, Ky., plant will reach planned capacity			
will be set up Mitsui Petrochemical Industries (U.S.A.) II S. investment plans	New	5	25	Protein concentrates made from petroleum Robson, Ernest: Traveling man switches	Aug	2	41	over the next several months N National Starch & Chemical Corp. — paper-	Nov	5	30
U.S. investment plans	Dan	17		from selling to buying	Dec	10	80	coating resin	Oct	29	129
at Ludwigshafen will use MT process . R Negotiating for interest in Thai oil	Dec	17	40	Semiconductor materials plant at St. Peters, Mo. planned	Sept	13	18	Plant to make polyelectrolyte flocculants in chemical complex at Meredosia, III.			
Petroleum-based SCP products	Sept	27	42	Sinking-fund debentures offering N Sulfur from stack gas: which process is	Sept	27	10	N Aug 2-27 National Steel — aluminum sheet rolling	Aug	23	38
Senboku see under name	July	19	59	best? Textiles Div. realigns its structure to put	July	5	46	and finishing mill at Hawesville, Ky N Steel sales headquarters will move from	Aug	30	9
Single-train urea plant at Osaka, Japan Urea process – "Total Recycle D	-		58	more emphasis on market orientation	Dec	17	26	Detroit to Chicago	Dec	24	26 53
Process" July 19-62,	Sept	27		Monsanto Enviro-Chem Systems – formed: will include activities of Leonard		,		National Zinc - zinc prices	Sept	13	33
isocyanate E-320 prices	Nov	26	120	Construction and Monsanto Biodize Systems	Nov	5	21	and Suikerunie U.A. to stop advertising			
infringing its urethane patents N Isocyanate prices N	Oct	18	71 28	Systems R Monsanto Europe S.A. – herbicide formula- tion unit in Lillo, Belgium R	Oct	11	36	"unfounded, destructive criticism" of cyclamates	Aun	30	39
Polycarbonates for snowmobiles N	Dec Sept	24 13	28 68 54	Rubber chemicals production at Antwerp	Aug	16	57	Neofil - polypropylene fiber plant at	Oct	10	
Tin catalysts for making grethanes patent				Monsanto (berica - Chemical and plastics				Terni	Oct	29	57
dispute N Mobil Chemical Co. – plant at Mt. Pleasant, Tenn., to produce Mocap pesticide	Nov	12	44	complex at Tarragona	Aug	30 30	32 32	Neutron Products, Inc. – radiation-induced polymerization of vinyl acetate homo-			
	Oct	11	28	Rubber chemicals production planned for '70 N	Nov	19	114	polymers and copolymers move into the pilot plant	Dec	10	67
Tex., plant doubled	Oct.	29	35	VCM capacity at Tarragona expansion	Aug	30	32	New Broken Hill Consolidated - Australian	Nov		32
	Aug	23	79	Monsanto Research Corp. – carbon-13 prices N	July	12	29	nickel projects New England Petroleum — Bahamas Oil	NOV	,	32
Selling most of retail fertilizer business to Swift	Nov	12	14	Montecatini-Edison - capital investment in southern Italy	Oct	4	23	Refining Co. see under name New Jersey Zinc — acquisition by Guif & Western: Conglomerates investigation			
Mobil Chimica Italiana – Naples petro- chemical plant expansion	Dec	24	39	in southern Italy	Oct	11	26	Western: Conglomerates investigation started	Aug	9	21
Mobil Oil Co. – bids for Alaska's North Slope oil	Sept	20	34	Montedison technology	Dec	3	23	Zinc prices	Sept	13	53
Computer programs may not be patentable per se, but the operation of computers that				industry hardN	Nov	26 12	36	includes construction of the first copper smelter to be built in the U.S. since			
are controlled by the programs may be -		22	72	Melamine plants and processes (table) Polypropylene patent suits alleging in-	July	12	47	the mid-'50s	Oct	4	15
Prater-Wei case N FTC charges producers of petroleum coke	Aug	23	73	fringement brought against Phillips Petroleum Diamond and Eastman				Nichibo – merger with Nippon Rayon to form Unitika	Dec	3	24
with restraint of trade	Dec Sept	17	25 24	Kodak	July	5	43	Nilon Ammonia — ammonia plant in Chiba R Nilonta Engineering — licenses pyrolysis	Nov	12	32
Pratt, C., projects world sulfur demand . N Software patent granted to two	Sept	27 20	109	name Sales reportN	Dec	1	20	furnace technology from Kellogg N Nikki-Universal Co., Ltd. – UOP joins Japan Gasoline in forming a new group	Aug	30	39
scientistsN	Oct	18 18	40	Montrose Chemical - DDT suit	Oct	29	31	Japan Gasoline in forming a new group	Oat		40
Mobil Oil Canada Ltd Nova Scotia oil?. Modular Systems - partner in Hercules	Oct		33	Montrose Co. – DDT pricesN Mooney – FRP for planes	July	26	38 40	that will offer licenses in the Far East N Nippon Ammonia — single-train urea plant.	July	19	59
housing programN Module Communities Inc. — Operation	Sept	27	10	Morrow, T.C Ashland Oil suing Morrow; claims that Wanda's earnings were				Nippon Carbide Industries — melamine plant at Kashima planned	Aug	9	25
Breakthrough bidding	Dec	24	22	overstated	Dec	10	22	Melamine plants and processes (table) Nippon Glass Fiber — glass fiber capacity	July	12	49
American Rockwell mergerN Molokai Ranch Co. – proposes a tourist	Nov	19	33	Fluff-Up, aerosol rug shampoo	July	12	26	increase Nippon Kakoh Seishi K.K. – Crown	Sept	27	27
resort on Molokai, Hawaii	Nov	26	126	Mountain Pacific Pipeline Co. — natural gas pipeline proposed to bring gas from Canada and Alaskan North Slope to the				Zellerbach obtains rights to "poly- olefin paper" process	Dec	10	67
Monsanto Biodice Systems - Monsanto Enviro-Chen Systems see under name				U.S	July	5	32	Nippon Mining - Sanyo Petrochemical	Dec	10	6/
Monsanto Co. – acrylic fiber plant in Lingen, Germany N	Oct	4	20	U.S. Mullins Mfg. Corp., Lehmann/Thropp Div. — sleving machine	Nov	19	100	see under name Nippon Rayon - A-Tell fiber			
Lingen, Germany N Acrylic fiber plant in northern Holland planned N	Aun		24	Murine Co. – acquisition by Abbott completed	Dec	10	22	expansion Merger with Nichibo to form Unitika R	Sept Dec	6	38 24
Adipic acid pricesN	Nov Dec	26 17	120	Completed	000			Nippon Shokubai - ethylenediamine from		14	
Aspirin and salicylic acid prices N AstroTurf: Lineup set in synthetic turf		11	33					ethanolamine and ammonia process N Nissan Chemical Industries — melamine	Aug	16	102
Benzoic acid pricesN	Aug	17	56 56					plants and processes (table) Nitrex – EEC is reported to be preparing	July	12	49
Benzyl chloride production expansion at Bridgeport, N.J	July	12	26	Nalco Chemical - corporate structure				action against fertilizer cartel and other fertilizer marketers	Aug	16	40
Buys 874 acres in Marshall County, Ala N	July	5	9	reorganized	Dec	24	26 32	Nitto Boseki - glass fiber capacity			27
Chocolate Bayou plant has launched	Nov	19	108	Corrosion inhibitor	July	19	32	Nomura Jimusho — Thiokol will team with two Japanese firms to build Japan's	Sept	27	27
Electronic Products & Controls Div. —	NOV	17	100	Partnerships to supply chemicals and plants to ease European industries'				first polysulfide monomer plant N	Dec	10	28
Peters, No., output doubledR	July	19	26	TEL and TML pricesN	Nov	12 26	41 37	Noranda Mines Ltd. – objects to potash prorationing	Nov	12	37
Etino Quimica see under name Expansions to be financed by going to the				Naifloc – partnerships to supply chemicals and plants to ease European industries'	J,		-	Zinc prices N Norstroem and Sjorgren — Bayer acquires	Sept	13	53
money market	Sept	13	10	pressing water Pollution wees	Nov	12	41	80% interest	Nov	12	32
comparisons: valve trays vs. packings	pr.	-	120	- letter	Nov.	10 26		link with chemical industry turns up:			
at AIChE meeting (table)	Aug	26	130	Lavera complex near Marseilles R	Aug	16	56	A & P to sell detergent	July	5	13
Formaldehyde capacity at Springfield, Mass., will be upped	Nov		13	Rhone-Poulenc's acquisitions strengthen its European position July 19-22.	Aug	16	56	A & P to sell detergent North American Rockwell – competition for rocket engine for new space shuttle			
				Nappe-Smith Manufacturing – acquired by Dart Industries		20		vehicleN	Sept	27 19	23
				Jan 1100301E3	Dec	24	18	Molded Fiber Glass Companies mergerN	Nov	14	33

Northern Natural Gas — joint venture				New way to cut sulfur dioxide emission				Della- Add			
Jonathan Development formed in an experimental home-building program N				from sulfuric plants to be installed at				Patton-Adair – acquired by Northern Petrochemical	Aug	9	12
experimental home-building program N	July	5	10	Paulsboro, N.J. plant	July	19	52	ravement salvage Co U.S. Supreme	Aug	,	12
Olefin and low-density PE plants planned at Joliet, III	Aug	23	13	Sulfur prices	July	19	37	Court rules there is no patent, if there			
Public offering of \$50 million worth of 8.5% debentures		-		to be built R July 5-19. N Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages. Tetracycline restraint of trade suit N	July	19	18	is no synergism from using several known elements N	Dec	17	40
8.5% debentures	Nov	5	14	Tetracycline case: third chapter in tale;				Leanon's Cost - Missonii: 20' Fonis, pau		1,	07
facilities to import Canadian gas Sinking-fund debentures offering N	Oct	11	28	Tetracycline restraint of trade suit N	July	26 24 19	20 26	on high-sulfur coal goes into effect	Oct	11	28
Sinking-fund debentures offering N	Sept	27	10	Toluene diisocyanate priceN	July	19	26 37	Peabody Engineering – Hercules Galion Products merger changes name to			
Northern Petrochemical – acquisition of Monsanto's domestic low-density PE				Toluene diisocyanate price N Urethane rug underlay materials plant in Upper Macungie, Pa R	Aug	23	22	Peabody Galion Corp N Peabody Galion Corp. – formed by Hercules Galion-Peabody Engineering merger N	Dec	17	18
business, including LDPE plant at				O'okiep Copper – expansion Orinoco Chimica del Seveso – fertilizer	Oct	4	15	Galion-Peabody Engineering merger N	Dec	17	18
Texas City, Tex., complex effective	Sept	20	39	complex at Potenza, Italy, planned N	July	12	33	rechiney Co Common Market experts see			
Acquisition of Weskem Corp. includes	- Pr			Urion Research — Ign-exchange electrodes	July	14	33	money pinch pushing European chemical companies into mergers	July	26	27
Patton-Adair N Ethylene glycol/oxide plant near Joliet,	Aug	9	12	for potassium detection N	Aug	23	74	Pechiney-St. Gobain — French chlorine	July	20	41
ill, onstream; second will be completed				Process-control electrodes keep eye on ions	July	26	49	plant at Lavera will use Hooker	Mari	21	300
III. onstream; second will be completed in '70 N Aug 23-13, N Nov 26-120, Low-density PE plant at Joliet, III.,	Dec	3	12	on ions Oronzio de Nora — dimensionally stable	Jul. 9	20	**	diaphragm cells	Nov	26	133
being built	Sept	20	30	anodes: Work starting to emerge in	Sept	13	67	mergers make problems	Aug	30	31
PE film pricesN	Nov	5	30	Osaka Gas — liquefied Brunei gas to be	Sept	13	6/	Rhone-Poulenc's acquisitions strengthen its European position July 19-22 R	Aun	16	E4
Northlode Exploration Ltd acquires 312				purchaseu	Oct	4	47	Spain: phorphatic fastilizes essinct for	Aug	10	56
oil and gas leases from Atlantic RichfieldR	Sept	13	18	Osaka Petrochemical — pyrolysis gasoline hydrogen plant at Sakai installation R	Sept	13	29	Huelva possibleN	July	12	33
Northwest Industries – Goodrich takeover				Ott Chemical - Eiszner, James R. new				Huelva possible	Oct	29	57
attempt N July 19-17, N	Aug	2	9	chairman: A man who'll take a chance Ouachita Fertilizer & Grain Co. — Abell,	July	12	38	VCM and PVC plant at Porvoo, Finland . R	Sept	13	29
Velsicol Chemical see under name Northwest Sanitation Products — Blu-Boy,				Nelson D. discusses distribution cost	Dec	17	51		Dec	17	81
automatic cleaner for toilet bowl	Oct	29	88	Owens-Coming – phenol and formaldehyde				Penniman Chemicals – process to custom-	Dec	11	07
zirconia grinding media	Sept	20	103	smells from glass-fiber plant at Bar- rington, N.J. Court case	Aug	16	94	dye unfinished leather shoes Pennsylvania Industrial Chemical — synthe-	Aug	23	67
Norton Co. – Chemical Process Div. – zirconia grinding media				rington, N.J., Court case Owens-Illinois — glass container prices and				tic racin plant in Daton Downs La			
and use Novo Industri A/S — enzyme fermentation plant at Kalundborg, Denmark opened. N	Oct	18	72	warehouse storage charges N	Aug	5	30	producing	Aug	23	22
plant at Kalundborg, Denmark openedN	Nov	19	114	Polymer for a clear coating for aircraft PVC bottle prices	July	19	40 38 35	proofing compoundC	Dec	17	79
Major new U.S. producer of enzymes N Nuclear-Chicago Corp. — Berkeley Medical Instruments Div. bought by Miles	Nov	5	29	Protective coating	Aug	2	35	Chemicals plant construction at Anaheim,	Dec	11	"
Instruments Div. bought by Miles				Oxirane Chemie — ARCO's propylene oxide plant in Rotterdam will be				Calif	July	5	19
LabsR	Dec	24	26	Europe's largest	Oct	11	36	Lucidol Div. – Geneseo, N.Y. percarbon-	Sept	20	101
Nucleonics Development Co. – thickness monitor	Sept	20	101	Oxy-Catalyst, Inc. – Catalytic oxidation	Mary	10	100	ate initiators and specialty chloroformates			
Nukem - URANIT see under name	æpt	20	101	Ozark-Mahoning Co. — Specialty Chemicals Dept. — inorganic fluorides	Nov	19	100	plant	Sept	20	43
Nutritional Biochemicals — acquired by International Chemical & Nuclear N	New	24	22	Dept. – inorganic fluoridesC	Nov	19	97	is back in operation following war			
Nye, William F. Inc extreme-environment	HUV	20	22					between Honduras and El SalvadorN	Aug	23	28
Nylon de Mexico — joint venture to build	Nov	19	104					Overseas activities will be decentralized	Dec	24	26
Nylon de Mexico — joint venture to build Mexico's first nylon feedstock plant N	Aug	2	20					Pentel fluorocarbon in tanning process Pennzoil United – Sea Robin Pipeline see	Aug	23	67
mexico s mist nyion recustock prant	nuy		20	P/E Development Co. (Pedco) - chemical				Pennzoil United — Sea Robin Pipeline see under name			
				construction labor costs study (chart)	Aug	16	99	Stock offering R	Dec	24	26
				PPG Industries — acoustic window C Air-cooler sales begin upswing as fresh-	Dec	24	54	Stock offering			
				water reserves shrink	July	5	22	see under name PepsiCo. — suit charges that Grace and			
Occidental Petroleum Corp Hooker				Chemical Div. — fast way to load catalyst into fixed bed reactor tubes	C	20	124	PepsiCo. — suit charges that Grace and Philip Morris conspired to deceive			
Chemical see under name				Chloride process plant at Natrium W Va	Sept	20	124	PepsiCo in case involving interest in Miller Brewing Netropy N	Aug	2	9
Occidental Chemical Div. will build				"plant warming tour"	Oct	18	58	Petrochim - naptha crackers onstream N	July	5	35 35
defluorinated phosphate plant in White Springs, Fla. R	Aug	23	22	Glass-fiber expansion	Sept Dec	20 10	109 53	Net loss of \$1.15 million in '68N Petrofina — Oleochim see under name	July	5	35
White Springs, Fla		_						Petroleos Mexicanos — petrochemical			
promises to import Venezuelan oil	Aug	16	16	studied Sept 27-27, R Nov 5-21,	Nov	19	120	buildup in Mexico	Sept	20	38
Oxytrol controlled atmosphere system	July	26	28	glass called NesatronN	Sept	13	68	Petroleum Marketing Corp. — CORCO will acquire stocks	Nov	26	22
Tariff Commission proposals to eliminate duty drawback and foreign trade zones								Petroquimica Argentina S.A. – Argentine	1404	20	
opposed by Oxy	Aug	23	14	benefits must be bargained for by the company with the union representing				styrene expansion proposed	Aug	9	25
opposed by Oxy N Willers, Tom: He's gone west to coordinate	_			active workers	July	19	31	terephthalate plant in Chubut,			
a \$2-billion giant	Dec	17	86	TEL and TELMEL prices N Titanium dioxide capacity additions	July	26	37	Argentina planned N	Sept	6	24
by scientists from Columbia Univ.'s				planned N	Oct	18	58	Petrosur — seeking more protection from importsN	July	5	31
Hudson LabR	Aug	23	22	Titanium dioxide pigment new line of	Man	10	74	Petro-Tex Corp Lockwood, James, president: Tough taskmaster on top	July	-	
Ocean Harvesters, Inc. – FPC plant in Aberdeen, Wash.	Dec	17	62	product is out	Nov	19	76	president: Tough taskmaster on top Maleic anhydride capacity at Houston,	July	5	49
Ocean Systems, Inc Sweet, E. Roy: Ex-				new antismog rules, give new life to old				Tex., plant to be upped N Texas buildup slowed by strikes	Aug	23	13
Singer now ponders ocean floor Oil Shale Corp. — milling operations at	July	26	61	Solvent (tables)	Aug	9	30	Texas buildup slowed by strikes	July	5	16
Keystone Mine in Crested Butte, Colo.,				coming (charts)	Sept	20	37	Pfanstiehl Laboratories — sugar derivatives	Aug	2	35
begun R Oleochim — Belgium fatty amines plant R	Sept	13	18	Pacific Lighting System - GSA will test	Dec	17	40	Pfaudler - glass-coated temperature probe	_		
Olin Corp. — acquisition of Lupton Mfg. R July 12-21. R Acquisition of Superior Construction R	Dec	,		24 dual-fuel vehicles	Dec	17	69	for process vessels	Dec	10	57
R July 12-21, R	Nov	.5	21	natural gas	Dec	17	23	will be approved for marketing by FDA.N	Aug	23	27
Acquisition of Superior Construction R Acquisition of Water Service Labs R	July Nov	12	21	Pacific Petroleum Ltd. – Canadian PE project set	Aug	2	14	Proteolytic detergent enzyme prices N	Aug	9	28
Aluminum ingot prices N	Aug	16	87		July	26	57	Sinequan doxepin hydrochloride new drug that is said to combat both anxiety and			
Aluminum prices	Nov Sept	13	87 29 53 97 109	Pacific Vegetable Oil Corp. – paint-level- ing agent	Dec	24	54	depressionN	Nov	26	134
Chemical Div. — icosahedral carboranes C.	Nov	19	97	Paine, Webber, Jackson & Curtis - report	Dec	24	,,	Tetracycline case: third chapter in tale: Justice seeks \$25 million in damages	July	26	20
Chlorine pricesN	Sept Nov Sept Oct	13 19 20 29	109	shows upward trend of sales, earnings and profit magins slackened sharply				Tetracycline restraint of trade suitR	Dec	24	26
DDT suit Ecusta Paper Div.: Lea and Tomlinson	oct	27	31	in the second quarter	Aug	23	14	U.K. clamping down on use of antibiotics	Dan	2	45
discuss black-liquor oxidation at TAPPI		-		in the second quarter		-		in feed supplements	Dec	,	43
Fine Organics merger N	Sept Sept	27	52	Pan American Chemical — pentagrythritol	Oct	4	15	EEC antitrust regulations	Aug	2	28
Merger called offN	Dec	3	9	plant planned N July 12-29, N Aug 2-27,				Phelan Sulphur Co. — Chemoleum see under name			
Henske, John: A sailboater changes course in mid-career	Ont	20	144	Pan American Chemical — pentaerythritol plant planned N July 12-29, N Aug 2-27, N Sept 6-33, N Pan American Oil — Argentine office	Nov	5	13	Closing three-year-old mining operations			
Liquid urethane foam system prices	Oct	29	144	bombedN	Dec	3	20	at Nash Dome, Tex. N Nov 12-37,	Nov	26	27
N Sept 27-44, N	Oct	4	38	Pan American Petroleum — gas and oil				Phelps Dodge — acquisition of Western Nuclear	Sept	6	10
New name for Olin Mathieson Chemical — and a new symbol, OLN, on the				search in Rocky Mountain area N Off-shore Louisiana activity stepped up R	Aug	30 12	10 21	Nuclear	Sept	13	53
Big Board N	Sept	6	10	Pan American Sulphur — Susquehanna violat-	July	**		Bottom plant will employ a high-temper-			
Strike settled R	Nov	19	44	ed federal securities law following its				ature gas-cooled reactorN	Dec	3	45
Olin Mathieson Chemical — changes name to Olin Corp., and a new company symbol,				successful tender offer for 38% of PASCO's common stock rules SEC				Philip Morris Inc. – Grace's sale of 53% interest in Miller Brewingto PM complet-			
OLN, on the Big BoardN Custom Chemicals Dept. — halogen	Sept	6	10	examiner N	Aug	30	9	ed; PepsiCo files suit	Aug	2	9
nitroalines	Aug	16	110		Dec	24	26	ed; PepsiCo files suit		17	23
Energy System Div. — air bags may join				Parke, Davis & Co capital expansion				German measles vaccine N Phillips Fibers — polyester staple produc-	Dec	1/	31
seat belts as major auto safety	Aug	30	40	Parsons Raigh & Co American Oli/a	Nov	5	13	Phillips Fibers - Polyester staple produc- tion at Rocky Mt., N.C., discontinued Phillips-Imperial Petroleum - kerosine	Nov	26	123
Glycol ether plant at Brandenburg, Ky.,		-		urethane components R Parke, Davis & Co. – capital expansion program through '74 planned				plant expansion in Fnoland	Oct	29	56
onstreamR Joint venture Jonathan Development	July	19	26	Sulturic acid from Sludge	Sept	6	48	Phillips Petroleum - bids for Alaska's	-	90	
formed in an experimental home-				Contract for Texaco's hydrocracker at Port Arthur, Tex	Oct	29	35	plant expansion in England	Sept	20	34
building program	July	5	10 51	Gues public with a combination stock	A	•	10	5. Africa expansion	Dec	24	39 29
menty my drawnie for Aponto 11	July	26	31	saleN	Aug	2	10	HDPE bottles	Aug	9	29

High-density PE pricesN	Dec	24	58	to produce irradiated wood/plastic				Acrylic molding dowder plant at Bristol,			**
Houston Natural Gas weighs expansion of chemical ventures. Kenai, Alaska, natural gas liquefaction	Oct	18	32	parquet flooring N Radiation Technology — nuclear radiation applying for job in enzyme processing N	Aug	9	33	Pa., expansion	Aug	2	10 27
plant now fully operationalN Montedison patent suit alleges infringe-	Aug	23	59	Rank Precision Industries, Inc	Aug	23	74	development) is an acrylic copolymer Lennig Chemical see under name	Oct	29	116
ment of polypropylene patent N	July	5	43	moisture meter	Dec		43	Plasticizers prices N	July	19	38
Pacific Petroleum Ltd. see under name Petrochemical venture with Showa Denko				principle to contain oil in bubble barrier Red Circle Transport Co. – barges for	Dec	24	23	West, A.S. discusses R&D expenditures	Sept	13	54
in Venezuela possible	Nov	19	114	Reed - Hoechst negotiates for joint	Nov	12	34	at AIChE meeting	Nov	26	129
Photochem Industries – incorporated in	Dec	17	52	ventures N Reichhold Chemicals Inc. – deep-well	Nov	26	36	bidding Rollins International — Rollins-Purle see	Dec	24	22
Picker Corp American Hoechst and PC	Aug	16	35	disposal of phenol, formaldehyde and synthetic resins waste at Tuscaloosa,				under name Rollins-Purle — building plants capable of			
form Picker-Hoechst	Aug	2	10	Ala., plant	Nov	19	90	treating factory wastes biologically, chemically or by incineration	Mari		42
Hoechst and Picker Corp N	Aug	2	10	at Albany, Ore., planned R	Dec	10	22	Rorer-Amchem – acquires Dyonics, Inc R	Oct	29	35
Pierce & Stevens Chemical Corp. — Chemi- cal specialties and adhesives plant near		20		Formaldehyde processing licensing competition	Nov	19	79	Rothamsted Experimental Station — device for extracting protein from common			
Chicago planned	Nov	19	44	Jacksonville, Fla., plant to get waste- treatment unit	Nov	19	44	jungle weeds	Sept	20	115
division marketing kits to tan fur skins . Pigment Manufacturers of Australia —	Aug	23	67	treatment unit R Maleic arrhydride prices. N Pentaerythritol capacities. N	July	12	31	capacity increase at Pernis,	Dec	24	39
ICIANZ-BASF joint venture to produce pigments	Dec	17	40	Phenol plant at Tuscaloosa, Ala., adds 50 million lbs/year by sulfonation	,			Netherlands,	Aug	23	27
pigments				process in '70 (table)	Sept	20	133	Rowles, Winston & Co Texans tell how to bankroll young chemical	····		
operation to offend residents" of South	Aug	16	94	(Poly-Autoplate) for high-quality				ventures	Nov	5	20
Piper Aircraft - FRP for planes	Aug	9	40	letterpress color printing N Plasticizer Div. — ousted from old brick	Dec	3	9	Royal Dutch Salt (KZO) — AKU-KZO merger: Europe's mergers make problems	Aug	30	31
Pittsburg Corning – cellulated glass beads, tossed onto oil spills, could be the answer	Don	37	70	building at Cambridge — builds a bigger, better plant at Carteret Resin tackifier C	Sept	27	48	merger: Europe's mergers make problems AKU merger N July 19-45, N July 26-27, Aug 30-31, R Sept 20-43	Oct	11	26
to some spill control problems N Podbielniak, Inc. – centrifugal counter-	Dec	17	70	Resin tackifier C Sterling Forest, N.Y. expansion N	Aug	2	35 10	Celanese will sell its 50% in Konam N.V. to KZO	Oct	4	15
current liquid-liquid extractor - letter Pointet-Girard - fined for breach of EEC	Aug	16	5	Water-fillable resins	July	19	32	European profits rise (table)	Oct	11	26
antitrust regulations	Aug	2	28	Reichhold Chemie – agreement to supply Russia with industrial paint know-how;				International Salt merger: Antitrust is tough on Americans too – Viewpoint Offers to have up to 1 million shares of	Nov	5	5
investment	Dec	24	39	also provides for the sale of leather, wood and automobile finishes to the				Offers to buy up to 1 million shares of International Salt	Sept	20	43
complex, India	Oct	11	36	Soviets Republic Corp. – acquisition of Glas-Craft	Aug	9	26	Justice Dept. seeks postponement of proposed acquisition, and is rebuffed.	Oct	11	28
fene resin plant in Tonawanda, N.Y R	Sept	27	18	of California	July	12	21	Sales and profits	July	26	27
Polymer Corp. – instrument maintenance by computer working since '58	Nov	19	108	antipollution suit against South Works N Research-Cottrell — Dingler heavy	Oct	11	55	VCM capacity expansion considered N Royal Dutch/Shell — Armour sell its	July	12	25 33
Polybutadiene plant at Koyali complex, India Polymer Industrie Chimiche – Neofil see	Oct	11	36	industrial valves	Dec	10	57	interest in Shellstar to RD/S Brunei Shell see under name	Nov	26	27
Polymer Industrie Chimiche – Neofil see under name				Research Organic/Inorganic Chemical Corp. – Lepidine, derivatives C	Dec	24	54	Chemical expansion in Moerdijk, Belgium	Dee	10	20
Polymers, Inc extruded needles for	Dec	24	67	Revere Copper – aluminum ingot prices . N Rewo Chemicals – additives for run	Aug	16	87	IQA see Industrias Quimicas Asociadas	Dec	10	28
Synthetic trees Polyquimica Textil – AKU and Glanzstoff each acquired a 25.5% interest in PTN		13	24	shampoo. Rewo Southern – producing surface-active	July	12	26	Petrochemical capacities in Netherlands to be expanded	Oct	18	34
Poly-Tech Corp acquired by U.S.	Sept			agents at Miami, Fla	Aug	16	35	Refinery at Geleen, Netherlands, planned with DSM	Sept	27	24
Industries	Aug	30	20	franchise division sale to Commonwealth				Sales - 10th in chemicals	Nov	19	39
Potash Co. of America — potash prices	Dec	11	35 42	United expected to be completed next month	July	19	26	Roycemore, Inc. – persunal hygiene spray market	Dec	17	81
Powell, Wm. Co. – globe valvesC Power Gas – contract for amines plant in	Sept	20	100	Rexall Polymers – selective polystyrene prices N	Dec	3	36	Rubicon Chemicals - diisocyanate product	Dec		54
Rumania	Aug Sept	13	22 15	Rexene Polymers Co. – ABS resins C Reynolds Metals – aluminum input prices N	Nov	19	104	Phosgene traffic halted by US.DOT	Sept	20	38
Gas from Britain's biggest onshore field will be tied into the national gridN	Aug	2	40	Reynolds Metals — aluminum ingot prices N Rheinische Olefinwerke — ethylbenzene and styrene unit onstream at	· · · · · ·	20	0.	Toluene diisocyanate price N	July	19	37
Power-Gas Corp. of America - ICI formal- dehyde process used in G-P's Crossett	riog	-		Wesseling	Oct	11	36				
Div. plant	Nov	19	79	Dutch Shell, launching expansion				SARP — chemical and petrochemical complex for Sicily planned N	Nov	12	28
- gas centrifugeN	July	19	51	Polypropylene plant at Wesseling, West	Oct	29	57	SCM Corp. — Ceramics Group — ultralow- expansion glass for commercial glazes N	Oct	A	47
and adhesives plant near Chicago		**		Germany	July	5	34	Saarbergwerke AG - plastic film joint venture in Neunkirchen R		14	
planned	Nov	19	44	Brazosport, Tex., from Dow N Chemscreen technique for shielding	Oct	18	66	Saber Laboratories – intermediates C	Aug	3	57 43
and processes - U.S. makers adopt Dutch process to foil import threat				nearby residiential areas from plant's odors	Aus		0.0	St. Gobain Co Common Market experts see money pinch pushing European			
(table)	July	12	49	Contender for the U.S. silicone market. N	Aug	16 23	60	chemical companies into mergers N Pont-a-Mousson merger N	July	26	27
organophosphines	Aug	16 26	110 143	Rhodia Industrias Quimicas e Textels — coumarin prices	Sept	20	109	St. Joseph Lead — Hanna Mining merger plans terminated	Aug	16	42
Process Plants Inc Southwest Cryogenics	NOT	20	143	interest in Soc. Roquette Freres N	Dec	24	32	Site preparation on project in the Brushy		5	19
see under name Production Steel — acquired by Whittaker . R	July	12	21	Acquisitions strengthen Rhone-Poulenc's European position	July	19	22	Zinc prices N	July Sept		53
Produits Chimiques de Tessenderloo – VCM plant, probably in Belgium's				Common Market experts see money pinch pushing European chemical companies	,	• •	**	St. Regis Paper — contract to investigate activated carbon for reclaiming water			
Limburg province plannedN Provesta Corp. – petroleum-based SCP	July	12	33	into mergers N	July	26	27	from pulp mill effluent N Salador – Grace buys majority interest N	July	2	10
products	Aug	2	42	Expansion in the U.S.; fine chemicals plant near Freeport, Tex	Oct	18	66	Salzdetfurth - BASF seeks control N San Diego Gas & Electric - IGT fleet	Nov	19	113
Iranian plant for direct reduction of iron ore possible	Sept	6	48	Paraxylene plant at Gonfreville, France planned	Dec	3	23	testing of vehicles fueled by natural	Dec	17	22
Swindell-Dressler Div. plans steel plant in Arizona using the HyL direct	жр.		***	Pechiney-St.Gobain-R-P merger: Europe's mergers make problems	Aug	30	31	San Miguel Fertilizer Co sold to Grace .	Nov	26	27
gaseous reduction process N	Sept	13	18	Phenol-from-cumene process	Sept		133	Sandia Laboratories – sterilization by a combination of heat and nuclear			
Pulp & Paper Industries, S.A. – oxygen debuts in the pulp mill: first-stage				Richardson Co. – forms new subsidiary, Richardson Ink Co R				radiation N Sandoz Inc. — ECM antitrust team fines	Oct	11	56
bleaching of Kraft pulp with high-pressure oxygen and steam may replace three con-				Richardson Ink Co formed R	Sept Sept		18	nine European firms for alleged price fixing of aniline dyes N Aug 2-20,			
ventional steps using chlorine and hypo- chlorites (flowsheet)	Oct	18	103	Richardson's Organic Chemical Div. — lauryl sulfate and emulsion polymers				N Aug 16-48, N Oct 18-65	Nov	5	21
Purie Bros. Holding Ltd Rollins-Purie see under name				Rigo Chemical — acquired by Central	Dec	10	54	research center addition R	Aug	30	16
Purvin & Gertz - LNG study for Gazocean	July	5	29	Soya Riken Kogyo — "chemical jackhammer"	Aug	30	16	Sankin-Sha - Perlite joint venture in Korea N	Nov	19	120
				will demolish concrete quietly and				Sanyo Petrochemical ethylene plant in	Nov	19	120
Q-Panel Co Q-U-V Cyclic ultra-				quickly N Riverton Laboratories – court upholds	Sept	13	67	Mizushima planned	July	26	13
violet weathering tester	Nov	19	43	Carter-Wallace's patent on meprobamate, tranquilizing agent marketed as				Schaefer, F. & M. Brewing - brewing	July	26	13
by De Soto R	Aug	30	16	Miltown N	Oct	11	22	complex at Fogelsville, near Allen- town, Pa., planned	Dec	17	17
				Robeco Chemicals, Inc. high-purity fatty acids	Oct	29	129	Schenectady Chemicals – adhesives plant joint venture in Japan R	Nov	19	120
Radiant Color - acquired by Neveuler B	Aun	16	42	Rohm & Haas — acetone cyanohydrin plant R	Dec	17	40	Scientific Design — maleic anhydride plant for Rumania.	Aug		22
Radiant Color - acquired by Hercules R	Aug	10	42	Acquisition of Consolidate Biomedical	Dee		26	Netherlands propylene oxide plant will	Aug		
Radiation Machinery Co world's				Labs. R Nov 5-21 R	Dec	17	60	use recondingly from Atlantic Richtista W			
Radiation Machinery Co. — world's largest commercial nuclear irradi- ator onstream at Hanover, N.J., plant				Acrylate monomers plant at Sea Sands, Teeside, England planned	July	-	20	use technology from Atlantic Richfield R Perchlor processes	Aug		

Production units for Northern											
Production units for Northern Petrochemical ethylene oxide plant N	Nov	26	120	Signal Chemical Co. — Daly, LeGrand: Charting a new course in plastics	Oct	18	109	Southeast Chemical & Plastics — Southeast Latex acquired by Dart Industries R	Oct	18	34
Scott Bader & Co., Ltd. — high-gloss paint emulsion	Sept	20	104	Hydroqui none project at Bayport, Tex. N July 26-51 N	Aug	16	101	Southeast Latex – acquired by Dart Industries	Oct	19	34
that snapes up as the best single				Resorcinol by proprietary process as a springboard into hydroquinone produc-		-		Southeastern Aniline - acquired by	bul.	10	24
answer to the problem of pollution from autos	Dec	24	72	tion; plant at Bayoirt, Tex N Signal Oil & Gas Co. — Signal Chemical	Oct	11	55	Tenneco R Southern Natural Gas – Sea Robin Pipeline	July	19	26
Scott Paper - Graft polymerization				see under name				see under name Southern Press & Fiber Media Co. —			
technique needs a new developer N Sea & Ski — Block Out, based on ethanol-	July	26	52	Sinclair Koppers – styrene monomer prices N	Sept	6	33	acquired by Slick Corp R Southern Solvents & Chemicals	Sept	20	43
aminobenzoic combination protects skin against sun	July	5	43	Slick Corp. — acquisition of Southern Press & Fiber Media Co R	Sept	20	43	- acquired by Central Solvents &	A	22	22
Sea Robin Pipeline — financing set for project that will bring in natural gas				Sloan-Kettering Institute — first solid evidence that poly I:C induces interferon	Sept		12	Southern Towing Co Du Pont files cargo	Aug	23	22
from beneath the outer continental shelf of the Gulf of Mexico off the Louisiana				production in humans presented by				damage suit	Sept	20	34
coast N	Aug	23	14	M. Hilleman of Merck Institute N Sly, W.W. Mfg. Co. dust filter C	Dec Nov	24 26	72 143	installation at Marmet, W.Va. to use CO ₂ off-gas from Du Pont's ammonia plant;			
Searle, G.D. Co. — Enovid: Los Angeles County jury dismisses damage suit N	Oct	11	21	Smith & Loveless — McKinney waste treatment process uses algae	Sept	13		600-ton plant at Luling, La N Southwest Forest Industries — particleboard	Oct	29	25
Seila – acquires 70% interest in Ecological Science	Dec	3	24	- letter Smith Kline & French Labs lithium	Nov	26	63 12	plant in Flagstaff, Ariz., planned R	July	12	21
Seitetsu Chemical — PEO being marketed in Japan N	Oct	18	72	carbonate will be approved for marketing				Sovereign Industries, Inc. – steel plant in Arizona using the HyL direct gaseous			
Seitetsu Kagaku — Japan boosts fertilizer exports to meet Red China's needs				by FDA N Medical-services and instruments division	Aug	23	27	reduction process planned R Sperry & Hutchinson — Paragon Design	Sept	13	18
Lummus formaldehyde process will be	Nov		117	set up as part of company's five-year plan to lessen its dependence on				to make and sell urethane components R Sperry Rand — Vickers Div. — high-torque	Dec	24	26
used in Himeji plant	Nov	19	79	pharmaceuticals N Snam Progetti — urea plant for IVP N	Dec	24	18	motors	Nov	19	100
Engineering and SC to form a U.S. company to engage in production and				Snell, Foster D., Inc. How to court the	Sept	6		Squibb Beach-Nut Inc. — New Brunswick, N.J. plant introduces improved drug			
sale of irradiation cross-linked PE foam R	Cant	12	10	consumer — report Herbert Terry (table). Snia Viscoas — caprolactam plant at	Aug	16	59	processing methods E.R. Squibb & Sons see under name	Nov	19	107
Selas Corp. of America — Dow obtains	Sept	13	18	Manfredonia, Italy	Oct	4	20	Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages	July	26	20
rights to ceramic foam technology N Heat exchanger for ethylene producers. C	Dec	10	68 54	polyester fiber facilities R	Dec	24	39	Tetracycline restraint of trade suit R	Dec	24	26
High-velocity, supersonic burner capable of vaporizing a piece of quarter-inch				Fiber complex near Salerno N Social Research Corp. — How to hire	Sept	6	24	Squibb E.R. & Sons — Argentine office bombed	Dec	3	20
steel plate from a distance of 12 in	Sept	27	49	Soc. Antillaise de Produits Chimiques —	Sept	20	40	FDA moves to take eight combination diuretic drugs off the market N	Sept	20	47
Senboku – ethylene oxide-ethylene glycol plant near Osaka	Nov	12	32	fertilizer complex on Martinique and Guadaloupe	Dec	10	22	Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages		26	20
Servo Mihalj — Yugoslavia pharmaceutical intermediates joint venture N	Nov	19	113	Soc. Carbochimique - Althouse-Tertre	Dec	10	22	Tetracycline restraint of trade suit R	July Dec	24	26
Shahpur Chemical – fertilizer complex at Bandar Shahpur, Iran	Sept	20	139	see under name Soc. Chimica Ravenna — PVC unit				Staley, A.E. Mfg. Co. – acquisition of Charlotte Chemical Labs	Aug	16	42
Shell Canada gas processing plant to be				planned	July	5	34	Chemical Div. — high-gloss paint emulsion	Sept	20	104
built in Alberta N July 19-17 N Shell Chemical — California will crack	Sept	27	24	contractor for units for Rumanian ferti-	A	•	22	Prepress color-printing proofing process		20	
down on Azodrin	July	5	10	Soc. Chimique des Charbonnages — ethylene	Aug	2	22	N July 12-44 N Sno-Bal, automatic cleaners for toilet	Aug	9	33
additional furnace at Norco, La. plant Expansion plans at Carrington, Cheshire	Dec	3	12	capacity at Lorraine, France expanded R Soc. de Prayon – superphosphoric acid	Dec	3	24	Stalwart Rubber – acquired by Blasius	Oct	29	88
plant, at Stanlow, Cheshire and Antwerp			20	Soc. de Prayon — superphosphoric acid plant near Liege, using the Oxy-Nordac process, planned N	Sept	4	24	Industries	Oct	11	21
area, Belgium	Dec	3	20	Soc. Poster wheeler Francaise - contract	Jehr	6	64	interest in Standard Naphthalene	f	10	
complex in Thailand	Aug	9	24	to build plant at Cap Lavera to produce protein concentrate biomass from				Products N Standard Naphthalene Products – Sun Oil	Sept	13	9
Geismar, La. expansion N Rotterdamse Polyolefinen see under name	Aug	9	12	hydrocarbons	Dec	3	24	sells its interest in SNP to Standard Chlorine Co	Sept	13	. 9
Sales: chemicals hit \$1.1 billion with	Non	10	20	ECM antitrust team fines nine European				Standard Oil Co. of California — Bahamas Oil Refining Co. see under name	34,0		
10-11% growth prospect	Nov Sept	19 27 5	39 24	firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48,				Bids for Alaska's North Slope oil N	Sept	20	34
Texas buildup slowed by strikes USDA admits it failed to enforce decision	July	5	16	N Oct 18-65	Nov	5	21	Hydrocarbylamine new additive that shapes up as the best single answer			
to require a new safety warning on labels of Shell's No-Pest strips N	July	5	23	contracts for plant at Cap Lavera to produce protein concentrate biomass				to the problem of pollution from autos called F-310 N	Dec	24	72
VCM plant at Houston, Tex., will use	Oct			from hydrocarbons R	Dec	3	24	Standard Oil (Indiana) - Inviting tenders of	200		,,,
Stauffer's technology N Shell Chemicals U.K. — linear primary	OCI	18	26	Soc. Française D'Organo-Synthese — U.S. investment plans	Nov	5	25	Common in exchange for shares of Standard N. Jersey N	Nov	26	22
alcohols capacity expansion at Stanlow, Cheshire	Aug	9	12	Soc. Industrielle de Polyolefines — high- density PE plant at Gonfreville,				Inviting tenders of common in exchange for shares of Standard N. Jersey N	Nov	26	22
Shell Nederland Chemie – PVC capacity	July	12	33	France	Oct	29	56	Standard Oil Co. of New Jersey - direct iron ore reduction process: what's in			
at Pern is expansion	July	**	,,	San Martino-Rho plant to produce				store? N Jamieson: "Our main business is in oil,	Sept	13	67
used during construction of gasoline processing plant at Yscloskey, La Naphtha for Singapore plant N	Oct	11	73	specialty chemicals, adhesives and stabilizers	Nov	12	32	natural gas and chemicals"	Nov	19	42
Natural gas liquefaction plant on	Sept	27	24	Soc. Lorraine de Polyolefines — low-				New chiefs Jamieson and Brisco plan to keep growing in chemicals	Sept	6	53
Borneo N Shell Sekiyu – refinery and petrochemical	Oct	4	47	density PE plant at Carling, planned R Soc. Miniere et Metallurgique de Penarroya	Aug	9	25	Standard Oil (Ohio) — BP proposal to merge its American operations into			
complex in Kyushu	Dec	17	40	S.A. — joint study with Amax for exploitation of the Yorke-Hardy				SOHIO will be voted N	Sept	6	10
to Royal Dutch/Shell	Nov	26	27	molybdenum deposits in British				Justice would block merger N Antitrust is tough on Americans too —	Oct	11	22
Shervitt Gordon – cobalt prices N Sherwin-Williams – beta-naphthol prices. N	Nov	5	38	Project with Amax to develop nickel	Aug	30	16	Viewpoint	Nov Nov	26	21
Competition in bidding for control of paint producer Berger, Jenson &				Project with Amax to develop nickel deposits in New Caledonia R	Aug	30	16	Stockholders meeting was adjourned until Dec. 9	Dec	3	10
Nicolson N	Dec Oct	24	18	Soc. Miniere Union Carbide-Somikubi —	July			Merger okavedN	Dec	17	17
Lead-free zinc oxide price N Phthalic anhydride prices N	Aug	2	37 27	UC columbium mining project in Congo Soc. Nationale des Petroles D'Aquitaine —	July	12	31	Stock offering	Dec	24	20
Sherwin Williams Chemicals, new division, formed by consolidation of pigment,				Aquitaine-Organico see under name Plans to invest \$116 million in new petro-				Butakon Div	Aug	9	24
colors and chemicals departments, auxiliaries chemicals department and				chemical and plastics plants in France and in the U.S	Nov	12	29	Starnetics Co. — solid mask	Nov	19	104
Maumee Chemical R	Sept	27	18	Soc. Nogentaise de Produits Chimiques — fined for breach of EEC antitrust		-		prices N Chlorine prices N	Nov Sept	20	109
Sherwin Williams Chemicals div. building tolyltriazole plant in Cincinnati, O R	Sept	27	18	regulations N	Aug	2	28	Cowles Chemical Div durable-press		19	
Synthetic para-cresol prices N Zinc oxide prices N	Dec Sept	13	53 54 87	Soc. Roquette Freres – Rhone-Poulenc acquires 25% interest N	Dec	24	32	fabric detergent C DDT suit	Nov	29	
Zinc sulfate prices N Shin-etsu Chemical Industry — Kashima	Aug	16	87	Solvay & Cie. — moving ahead with diversification into fibers N	Dec	10	28	Headquarters to be moved to Westport, C Conn., in late '71 R	Nov	19	44
complex: Japan builds a \$500-million petrochemical project — its biggest	July	5	34	Process for treating waste waters from soda ash plants	Nov			Phosphate chemicals prices	Dec	10	54
Shinko-Pfaudler — electrodialysis as a way of getting fresh water from salty well	July	,	34	Sales and earnings, six months '69 N VCM and PVC capacity in Europe boost N		29	113	Shell's plant at Houston, Tex., will use Stauffer's VCM technology N Sodium silicates prices N	Oct Sept	18	
water project N	Nov	5	36	VCM unit at Martorell, Spain, planned N	Aug	9	24	Teflon application on its acid absorption	Jept	0	,,
Showa Denko - petrochemical venture with Phillips Petroleum in Venezuela	-			Sonatrach — Algerian LNG due El Paso contract for importation of	July	, 5	29	towers has been used for the last five years	Sept	6	48
possible N Plastics center planned	Nov Sept	27	114	Algerian LNG into U.S. over a 25-year	Oct	18	26	Stauffer Hoechst Polymers – PVC sheeting for synthetic trees	Dec	24	68
Showa Neoprene — chloroprene plants R Shree Synthetics — nylon plant in Madhya	Aug		35	South African Coal, Oil & Gas Co				Stearns-Roger - contract from Gulf to expand low-density PE plant at Orange,			
Pradesh N	Sept	6	24	ethylene plant at Sasolburg onstream. R Southbridge Plastics Co. — vinyl sheeting plant at Clifton, N.J. shutdown ordered	July		,,,	Tex	Nov	12	22
Sierracin Corp Polymer for clear coating for aircraft fuel tanks	Aug	9	40	for failure to carry out a '68 court order				third-quarter report N	Oct	18	25
Protective coating C	Aug	2	35	to eliminate "offensive odors" from the plant's plastic-processing ovens	. Aug	2	3 37				
				(N Newsletter. R Roundup. C Count							

Sterling Drug, Inc., Hilton-Davis Chemical				Teijin Chemical Japan's biggest polyester producer, seeks oil in Libya R		**		Seeking government approval of a patent			
Div. – optical brighteners for detergents – letter	Dec	10	5	Joint venture with Hercules to make DMT	Aug	23	35	agreement with Dow for production of polypropylene continuous-sheet foam. N	Sept	6	24
textile chemicals unit at Piedment				in Japan R Polyester tubes plant planned R	Aug	23	35 25	Thailand investment expansion Thiokol will team with two Japanese firms	Sept	27	27
S.C., planned R Glass-fiber in aircrafts Israeli fiber researcher, M. Lewin, aids	July	5	19	Polyester tubes plant planned R Teijin Inc. — marketing substitute silks of modified polyesters				to build Japan's first polysulfide monomer plant		10	20
Israeli fiber researcher, M. Lewin, aids	nuy	,	31	Teijin Limited - three new high-temperature	Sept		38	royo Soda – chloroprene plant will use a	Dec	10	28
during 8-month working visit to textile lab	Nov	12	49	products — a fiber, a film and a varnish	Oct	29	120	butadiene process under license from BP	Aug	23	35
Nylon scrim for Hawaiian man-made lake liner	None		126	Teilin Petrochemical - petrochemical				Toyobo Co Chinon new silk synthetic	Sept	6	38
Stone & Webster Engineering - electrolytic	MOV	20	120	tuildup	Aug	23	35	Trans Alaska Pipeline System – Will be under the strictest controls ever placed			
process for sulfuric acid recovery — financing sought	Dec	3	46	than 10% of the stock of Albright & Wilson N	Nov	5	24	on pipeline builders	Nov	12	20 31
Stora Kopparbergs Bergslags – U.S. company cancels contract because of				Acquisition of Southeastern Aniline R	July	19	26	Trans Union Corp. — computer systems to			
Swedish government aid to North				Burlington, N.J. residents demonstrate against Penn Central which haufs VC				trace car movements	July	19	42
Vietnam N Style-Crafters, Inc. – nylon foam products N	Aug	30	40	and VA from Tenneco plant	Sept Sept	27	109	algae — letter	Sept Nov	13	63
Suburban Propane Gas - acquires oil and	,		**	Heyden Div benzyl alcohol plant at				Transammonia - fertilizer exports going up	Oct	4	34
gas producing properties in Arkansas and Louisiana	July	12	21	Fords, N.J. R July 12-26	Aug	9	11	Transene Co. — heat-sink grease C Trans-Sonics Inc. — liquid level indicator C	Sept Sept	20	104
SUINCTURIE U.A AMSTERDAM COURT OFDERS				for gloss and semi-gloss latex paints Pentaerythritol capacities	Nov	19	43	Turnomat Co. — acquired by Blasius Industries	Dec	17	25
company to stop advertising "unfounded, destructive criticism" of cyclamates. N Sulphide Corp. — Eastern Nitrogen see	Aug	30	39	Pentaerythritol prices N Sept 6-33 N	Sept	13	29 54	Turtle Wax Inc Color-Bak Rug Shampoo			
under name				Poromerics: many starters, few finishers . Jentra 3, shoe material N	July Oct	26	43 71	and Spot Cleaner introduced	July	12	26
Sulphur Export Corp. – position as world price leader undermined N	Sept	27	43	Shoe-upper material exhibited at L&AI exposition	Nov	19	76	to make "anomalous" (or otho or poly) water N	July	12	43
Sumitomo Chemical — expansion program Hasegawa urging U.S. industry and	Nov		118	- letter Venture management: Chemical companies	Nov	26	12	mate:	July	16	43
and government leaders not to insist				try new techniques to manage new				UCB-FTAL - phthalic anhydride and			
that Japanese textile makers voluntarily cut exports to the U.S N	Oct	4	19	Ventures Tenneco Corp. — maleic anhydride prices N	Dec	17	48	phthalates joint venture	Aug	16	57 101
PEO being marketed in Japan N	Oct	18	72	Petro-Tex Corp. see under name	July	,	31	U.R.E.I. Co. – fume detector C Ube Ammonia Industry – ammonia plant	MOV	19	101
Plant to make synthetic meta and para cresols N	Dec	10	68	Record interest on first-mortgage pipeline bonds	Sept	27	10	using ICI-Kellogg process planned R Ube Industries – butadiene joint venture	Aug	23	35
Sales in the first half '69 N Test plant to produce high-density PE . R	Aug	23	28	Tennessee Eastman - Kodel polyester		.,		with Maruzen in Japan R	Aug	23	35
Sun Chemical Corp Chemetron takeover	-			plants at Kingsport, Tenn., and Columbia, S.C. capacity additions R	Aug	30	16	Chiba Butadiene see under name Uddcomb Sweden AB – Swedish venture			
bid: rebuffed but still wooing Fertilizer-grade ammonia wholesale	Sept	13	16	Tennessee Corp. – copper chemical prices. N	Aug	16	87	to make reactor vessels and other heavy steel components for CPI	lube	10	61
Sun Oil - Dunlop, R.: Petrochemical and	Oct	11	42	Testor Corp oil of mustard (ally)	Muy	10	0/	Uddeholms AB - Swedish venture to make	July	19	51
plant food revenues will be somewhat				isothiocyanate) additive stops youngsters from sniffing glue N	July	26	51	reactor vessels and other heavy steel components for CPI	July	19	51
FTC charges producers of petroleum coke	Nov	12	22	Texaco — FTC charges producers of petroleum coke with restraint of trade	_			Ugine - ethylenediamine from ethanolamine			
with restraint of trade	Dec	17	25	Hydrocracker at Port Arthur, Tex.,	Dec	17	25	and ammonia process	Aug	16	102
Fertilizer complex on Martinique and Guadaloupe R	Dec	10	22	Odessa, Tex., to be fount of learning or	Oct	29	35	C Sept 20-103	Sept	20	104
Standard Naphthalene Products interest sold to Standard Chlorine Co N	Sept	13	9	fount of oil?	Nov	5	21	mixer C	Nov	19	100
Top management will change: R. Dunlop moves up to chairman; H.R. Sharbaugh,	Jept	13	,	Texas Gulf Sulphur — earnings N Phosphate Div. — New techniques to cut	Nov	12	13	Unifos Kemi - low-density PE capacity expansion in Sweden R Aug 9-25 R	Dec	17	40
new president	Dec	24	17	Costs of bulk-handlingN	Nov Sept	12 27	34	Union Carbide — acrylate plant now com- complete at Taft, La N	Nov	12	37
Sunlight, AB — low-phosphate-content detergent, dubbed New Radion	Oct	20	304	What next for the big sulfur producers?	July	26	17	Air-cooler sales begin upswing as fresh-		**	
Suntide Refining Co. — FTC charges	Oct	29	106	Texas Instruments — Sherman, Tex., plant will make single-crystal semiconductor				water reserves shrink	July	16	22 88
producers of petroleum coke with restraint of trade	Dec	17	25	material R	Aug	16	42	Aminoethylethanolamine prices N BASF's Wintershall normal-paraffin plant will use Iso-Siv process N			
Superforsfatbolaget - Lijeholmens see				Texas-U.S. Corp. – polybutadiene rubber license for Mitsubishi R	Nov	19	120	Cabot will acquire Stellite operations N	Dec	24	20 17
under name Superior Construction — acquired by Olin				Thai Oil Refinery - 50/50 joint venture petrochemical complex in Thailand N	Aug	0	24	California will crack down on Temik N Chemicals & Plastics Group — cyclic	July	5	10
Mathieson R Susquehanna Corp., Atlantic Research	July	12	21	Thermo Electric Corp solid-state		,		olefins C	Aug	2	35
Div Arcagen system for controlled	tule.	-	20	control	July Sept	20	101	Chemicals & Plastics Group - cyclic olefins C	Aug	2	35
oxygen atmosphere for food preservation Violated federal securities law following	July	26	28	Thiokol Chemical – Japan's first polysulfide monomer plant will be built				Chrome operations in Rhodesia not going so well	July	12	37
its successful tender offer for 38% of Pan American Sulphur's common stock				in team with two Japanese firms N	Dec	10	28	Chrome imports from Rhodes ia		10	**
rules SEC examiner N	Aug	30	9	Thor Dahl Shipping Co. — Norwegian whaler to be converted into a mobile				N Oct 29-106	Nov	12	37
Swadeshi Cotton Mills – polyester fiber capacity in India increased N	Sept	6	24	FPC plant	Dec	17	61	Dry-battery plant at Maryville, Mo., to be built R	Oct	29	35
Swearingen - FRP for planes Swedish Sugar Co protein product	Aug	9	40	World's largest permanent floating fish- protein plant will be built by a				Ethylene glycol-based antifreeze prices N	Dec	10	54
research	Aug	2	44	Scandinavian consortium N Thor Power Tool Co. — sludge pump C	Oct Nov	19	48 101	Ferroallys Div. — New president Fred Kroft, Jr.: The club champ takes over			
Swift Agricultural Chemicals — revamping operating and marketing methods for				Thyssen Rohrwerke - equipment consortium	Sept	13	15	a new division	Nov	26	154
fertilizers (chart)	Aug	16	91	Pipes for Russia	Oct	29	50	Glutaraldehyde in leather tanning	Aug	23	67
Mobil selling most of its retail fertilizer	M	1.		at Nordenham, Germany	Sept Oct	13 18	29 57	Hard-hitting antifreeze advertising campaigns are boosting sales; anti-leak			
business to Swift	Nov	12	14	Tokyo Electric - liquefied Brunei gas		10		formulas at center of a controversy Hydrocarbon Div. formed to manage world-	Dec	24	62
Swindel-Dressler Div. Sybetra — contractor for fertilizer complex		0		to be purchased N Tokyo Gas – liquefied Brunei gas to be	Oct	•	47	wide procurement and production of			
at Slobozia, Rumania	Aug	2	22	purchased N	Oct	4	47	hydrocarbon raw materials	July	19	20
Gabonese ammonia fertilizer plant	Sept	13	15 34	Tomoe Engineering — epoxy resin plant joint venture in Japan R Nov 19-120 R	Dec	17	40	stainless steel will be put to work in modernization of Eastern Stainless'			
Syntex Corp. — Alza Corp.'s shares will be distributed N	Dec	17	18	Tong Suh Petrochemical — acrylonitrile plant at Ulsan, South Korea R	Dec	17	40	Baltimore mill N	Nov	5	36
U130100100				Toray Nylon Thai - nylon fiber capacity	Sept	27	27	Linde Div. – LOX suppliers for Apollo 11 N	July	26	51
				boost in Thailand	Dec	17	79	Linde Div Molecular sieves for			
				Total-Chemie – aromatics plant will be built at Gonfreville N	Sept	27	24	Arcagen system	July	26	28
Tampa Electric Co electrolytic process				Petrochemical projects slated for				nominated to five-year term on the	July	5	23
for sulfuric acid recovery pilot-plant	Dec	3	AL	Toyo Engineering — ammonia unit for the	Nov	12	30	Nuclear Div President Roger Hibbs:			
Tangent Foams – ICI acquires 51% R	Nov	12	32	Soviet Union	Nov	12	32	Nuclear's where the action is	Sept	13	34
Tantalum Mining Corp. of Canada Ltd. — Canada's first tantalum mill is				India R	Dec	17	40	Penuelas, Puerto Rico project expansion (table) N July 5-10	July		-
processing 500 tons/day of ore	Sept	20	112	Contract for Mitsui ethylene plant in Russia	July	19	45	Prienoi: modified Kaschig-process plant			
Russia imports cesium oxide N Tantalum oxide prices N Tanzania Fertilizer – NPK fertilizer	Oct Oct	29	119	Russia N Licenses Lummus technology N Negotiating with South Vietnamese	Aug	30	39	at Marietta, O., may be phased out Poromerics: many starters, few finishers .	Sept	20	133
Tanzania Fertilizer – NPK fertilizer plant ordered	July	5	34	government for the export of				Protein concentrates made from petroleum Research program in the use of membranes	Aug	2	41
Taylor Wine Co Ultrasonic Solution			-	nitrogenous fertilizer plant R Toyo Koatsu see Mitsui Toatsu Chemicals	Dec	17	40	Sales and earnings outlook	Sept	30 27	17
Analyzer to measure solids contents of solutions and suspensions N	July	5	44	Toyo Menka Kaisha - bids for Russians		20	20	Texas buildup slowed by strikes	Nov	5	16 30
Techmashimport – ammonia unit for the Soviet Union	Nov	12	32	Toyo Rayon - Biaxially oriented polypro-	Aug			Tin catalysts for making urethanes patent dispute N	Man		
Melamine plants and processes (table) Technip — CTIP talks fall through N	July	12	49	pylene film plant in Ibaraki planned R Marketing substitute silks of modified	Nov	19	120	Unitos Kemi see under name	Nov	12	44
Contracts for Rhone-Poulenc para-xylene	Aug			polyesters	Sept		38	Union Carbide Canada Ltd. – sales and profits, first-half '69	Aug	16	38
plant at Gonfreville, France R	Dec	3	23	Polypropylene plans N	Sept		24	Profits up		12	21
				(N Newsletter, R Roundup, C Country	(nwn)						

Union Chimique Belge - capital investments				USS Chemical Div Haverhill, O.,				Wellman-Lord - contract for Olin sulfuric			
in fiscal '69-'70 will be close to \$20 million N	July	5	35	phenol-from-cumene capacity (table) USS Chemical Div. — phthalic capacity	Sept	20	133	new way to cut sulfur dioxide emission	July	19	18
Joint venture phthalic anhydride and phthalates project	Aun	14		additions N	Aug	2	27	from sulfuric plants to be installed at			
Union Chimique-Chemische Bedrijven —	Aug	16	57	Unitika — New company formed by merger of Nippon Rayon and Nichibo R Universal Oil Products — Alamet Div.	Dec	3	24	Paulsboro, N.J. plant	July	19	52
Soc. Italiana della Union Chimique Belge see under name				Universal Oil Products - Alamet Div.				Petrochemical includes Patton-Adair. N	Aug	9	12
Union des Industries Chimiques - Franc				may be sold to Keckenby Co N Japan Gasoline, joint new group that	Oct	4	10	Westcoast Transmission Co. — Mountain Pacific Pipeline Co. see under name			
devaluation: Will devaluation help? Union Electric — Dolomite injection	Aug	16	39	Japan Gasoline, joint new group that will offer licenses in the Far East N Japanese process called MRG (for	Oct	4	48	Western Laboratories — acquired by			
process started up at Meramac plant N	Dec	3	46	methanerich gas) rights obtained N	Nov	19	89	Alcolac Chemical	Sept	6	10
Union Espanola de Explosivos – Rio Tinto merger July 19-48 N	luly	26	27	President Logan discusses what it would	Sept	20	133	Bunker Hill's Pacific Div N Western Nuclear Inc. – acquired by	Oct	11	22
Rio Tinto-UEE merger: Europe's mergers	July			cost to reduce or eliminate lead in				Phains Dodge	Sept	6	10
make problems	Aug	30	31	Phone Poulanc para vylene plant will	Dec	24	71	Contracts Kaiser Engineers for uranium	July	5	19
remaining interest in American Mineral				Rhone-Poulenc para-xylene plant will use Parex process	Dec	3	23	mill near Wellpinit, Wash R Westinghouse Air Brake Co., Fluid Power		,	
Spirits Western from Atlantic Richfield R Union Pacific RR — Celanese's oil and	Aug	16	42	Upjohn, Chemical Div. – polymeric isocyanate prices N	July	26	37	Div. — pilot valve	Nov	19	100
gas business will be purchased N	Sept	6	9	Chemical Div steroid prices N	Aug	30	29	Electric motors prices N	Nov	12	44
Natural Resources Div. — Pan American Petroleum will search gas and oil in				Chlorohydrin sterilant for rats N Colestipol – new drug to lower	Sept	20	123	Weyerhaeuser Co. — expansion program N Linerboard and corrugating-medium plant	Dec	3	9
Rocky Mountain area N	Aug	30	10	cholesterol levels in blood N	Nov	19	90	in the mid-South okayed R	Nov	5	21
Uniroyal — Chemical Div. — Vibrathane 6005 printing roller coating	Aug	23	68	FDA order to recall and relabel products containing the antibiotic novobiocin N	July	24	14	Stock offering	July	12	13
GAF buys research center in Wayne, N.J				Isocyanates plant adjacent to poly-	July	26	14	of a Rhodia system that uses anti-			
Rayon and rayon bias-belted tires N	Aug Oct	11	22 41	rethane chemicals complex at La Porte, Tex. planned	Nov	5	13	White, Weld & Lehman Bros. — will manage	Aug	16	94
U.S. district court in N.Y. barrs Uniroyal from enforcing its maleic hydrazide				Panalba, antibiotic combination drug.	-			White, Weld & Lehman Bros. — will manage Pennzoil United stock offering R	Dec	24	26
patent against Ansul N	Nov	12	13	banned by FDA	Sept	27	23	Whitehead Metals — nickel stolen from Philadelphia plant	Nov	19	44
Urethane foam for aircraft fuel tanks United Aircraft, Pratt & Whitney Div. —	Aug	9	40	A rating for spread-of-flame resistance N	Nov	12	38	Whitey Research Tool Co. — aluminum	Nau	10	100
competition for rocket engine for new				Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages	July	26	20	Whittaker Corp acquisition of Production	Nov	19	100
space shuttle vehicle	Sept	27	23	Tetracycline restraint of trade suit R	Dec	24	26	Steel R Dynasciences Corp. see under name	July	12	21
blades	Aug	9	37	Urethane chemicals taken into second- generation products and untapped				Materials Subgroup's Arnold Miller			
United Nuclear — Combustion Engineering trying to unload shares in United				markets (table)	Dec	3	29	Fervor for R&D mustn't sway my judgment on P&L	Dan	24	0.4
Nuclear R	Nov	12	22	Virus-inactivating experimental drug tested	Nov	5	35	Narmco Div. — Pregregs in aircraft	Dec	24	04
U.S. Banknote Co. Inorganic Resin Mfg. Div. – fireproof resin is chief binding				URANIT - German partner in the trinational				windecker Research - FRP-bodied planes .	Aug	9	37 37
u.S. Borax & Chemical Corp. — anhydrous	July	12	27	uranium enrichment centrifuge project N Usine Metallurgique Doloise — Bunker-	Dec	10	68	Wintershall AG. see BASF's Wintershall AB	Aug	7	31
U.S. Borax & Chemical Corp. — anhydrous boric acid process patented N	Nov	19	89	Ramo acquires a majority interest N	Nov	12	14	Wisdom Rubber Industries - butyl liner for man-made lake in Hawaii	Nov	26	126
Boron, Calif. operations modernizing and								Witco Chemical — acquires two Canadian			
modifying N Randolph, C.L. new president: A sailor	Dec	10	13					operations R Justice Dept. charges the company	Dec	3	24
drives the mule team	Oct	4	53	VEBA-Chemie - ethanol plant in Belgium				conspired with distributors to allocate			
U.S. Gypsum – acquisition of Kinkead Industries	Aug	30	16	R Oct 29-56 R	Dec	3	23	sales territories of its Kendall-brand Petroleum products	Aug	2	9
U.S. Industrial Chemicals - color con-		-		Joint venture with Huels to double polyolefin capacity	Aug	30	32	Justice Dept. wants a consent decree N	Dec	17	18
U.S. Industrial Chemicals — cord and wire	July	5	32	Soc. Industrielle de Polyoletines see			,,,	Organics Div. — low-gelling stearate C Soc. Italiana della Union Chimique Belge	Oct	29	129
coating C	July	26	57	under name Velsicol Chemical — California will crack				see under name			
U.S. Industrial Chemicals — ethanol capacity expansions	Aug	9	12	down on dicamba herbicide N	July	5	10	Wolfe Ridge Joint Venture — Senator Hart accuses Hickel of planning to "give			
Ethyl ether prices N	Oct	18	12 57	Garrison, Robert new president: Ready to go global	Sept	27	63	away" 10,000 acres of the richest	0-1	10	22
Low-density PE resin prices N Polytrip returnable plastic milk bottle	Sept	6	34	Venezolano del Nitrogeno (Nitroven) – El Tablazo fertilizer plants				federal shale deposits in Colorado Wood Industries — plastic platemaking system (Poly-Autoplate) for high-quality	Oct	18	33
system: switch from lease to direct sell Sulfuric acid plant at DeSoto, Kan.,	Aug	9	29	Venezuelan Petrochemical Institute	Sept	13	15	system (Poly-Autoplate) for high-quality letterpress color printing N	Dec	2	0
expansion R	July	12	21	(IVP) – contract for construction of the 'largest nitrogen fertilizer plant in the				Woodall Industries - acquisition by	Dec	,	7
USI Europe, N.V. – low-density PE capacity at Antwerp plant to be				world"	Sept	13	15	Libbey-Owens-Ford planned	Oct	11	28
doubled R	Oct	11	36	Urea plant from Snam Progetti N Urea unit at Moron	Sept Sept	13	24 15	plant near Liege, using Oxy-Nordac			
U.S. Industires – acquisition of Poly-Tech Corp	Aug	30	16	Ventures Investment & Finance Co. see	Jept	13	13	process, planned	Sept	6	24
Holiday Mfg. Div molded plastics				Dow Corp. Verley, Albert & Co. — "odor counteractant"				going up	Oct	4	34
plant at Grand Island, Neb N Production Controls Div. will build	Nov	26	22	system	Aug	16	94	Worthington Biochemical Corp. – radioactive enzymes	Sept	20	100
enzyme detergent plant at Chicago N	Nov	26	22	Vibco, Inc. — impact vibrators C Vinatex — PVC unit at Stavely addition . R	Dec July	17	79 34	enzymes			
Ulysses Irrigation Co. will produce extruded PVC irrigation pipe N	Nov	26	22	Vio-Bin Corp. — solvent-extraction				N Aug 16-34, N Aug 23-28, N Sept 27-9, N Oct 11-22	Nov	12	13
U.S. Oil of Louisiana, Ltd. — Chacahoula Dome mine production cut 40%	Nov	26	27	processes for FPC Vistron Corp. – carbon dioxide and dry ice	Dec	17	61	BASF wants Wyandotte as a raw- materials base for U.S. expansion			
U.S. Pipe & Foundry Co. – resorcinol				unit and ammonia storage tank to be built at Lima, O N	Oct	20	20	(charts)	Sept	6	28
U.S. Plywood-Champion Paper Inc. —	Oct	11	55	U.S. technology for urea plant at	oct	29	25	Geismar, La., chlorine production halted by a flash explosion	July	24	20
Alaskan unbleached pulp and lumber	to be	10		Lima, O N	Aug	2	39	Propylene oxide and glycol prices N	Oct	11	38 41
will go to Kansaki Paper Mfg. Co U.S. Safety Services Co. — hearing	July		13	Vitrum – Swedish government discloses that the nation's pharmacies will be				Toluene diisocyanate price N	July	19	37
protectors	Sept	20	101	nationalized on Jan. 1, '71 N Vulcan Materials — chlorinated solvents	Oct	18	66				
U.S. Smelting, Refining & Mining – Federal Pacific Electric merger plans				prices N Sept 20-109 N	Dec	17	55	Martinton Barrier Branch			
terminated	Aug	16	42	1,1,1-trichloroethane — New processes, new antismog rules, give new life to				Yacimientos Petroliferos Fiscales Bolivianos — Bolivia plans			
affected by military coup N Calumet Enforcement Conference:	Oct	18	66	old solvent (tables)	Aug	9	30	petrochemical buildup in wake of Gulf			
Calumet Enforcement Conference: Chicago's Metropolitan Sanitary								takeover	Dec	3	23
District denies extension of pollution								spray market	Dec	17	81
control deadline N Chicago files antipollution suit N	Sept	11	47 55	Wanda Petroleum - Ashland Oil suing				upswing as fresh-water reserves shrink	July	5	22
Chemical buildup	July	5	16	T.C. Morrow; claims that Wanda's	0	30	22				
Maleic anhydride prices N Mineral investigation in Lyon County,	July	5	31	earnings were overstated R Triad pipeline project	Dec Sept		38				
Nev R	Dec	24	26	Triad pipeline project				Tinchen Inc. consister activity			
Minntac taconite plant to double pellet production	Nov	19	44	electric clutch C Warner-Lambert Pharmaceutical – merger	July			Zinchem, Inc. – emulsion, solution polymers	July	26	57
Replaces 14 open-hearth steelmaking	Aug		37	with Eversharp N	Sept			Zinsser, William & Co emulsion,			
furnaces with BOF				Personal hygiene spray market	Dec			solution polymers	July	26	57
complex contract to Litwin N	Aug	2	10	Olin Corp R	Nov	19	44	in Goa, India R	Dec	17	40





